

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: January 16, 2003, 02:39:24 ; Search time 79 Seconds  
(without alignments)  
12643.623 Million cell updates/sec

Title: US-09-817-198A-1

Perfect score: 3257

Sequence: 1 tgcccgctgcccgcgcgcag.....aaaaaaaaaaaaaaaaaaaa 3257

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued\_Patents\_NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	156.6	4.8	1340	2	US-08-824-873-2
2	156.6	4.8	1340	3	US-09-198-184-2
3	156	4.8	925	2	US-08-916-901-4
4	156	4.8	925	4	US-09-154-602-4
5	136.2	4.2	875	4	US-09-075-454-10
6	136.2	4.2	2612	4	US-09-484-970B-142
7	120.6	3.7	847	2	US-08-773-423-4
8	113	3.5	639	4	US-09-399-913-66
9	110	3.4	970	3	US-08-888-077A-28
10	91.2	2.8	820	3	US-08-741-411-6
11	85.8	2.6	7218	1	US-08-232-463-14
12	80.6	2.5	890	3	US-08-741-411-4
13	80	2.5	1172	4	US-09-075-454-8
14	80	2.5	1255	2	US-08-766-551-6
15	80	2.5	1533	4	US-09-075-454-11
16	79	2.4	848	3	US-08-741-411-2
17	77	2.4	1749	4	US-09-149-476-54
18	75.6	2.3	1407	4	US-09-493-914-1
19	73.6	2.3	803	4	US-09-075-454-13
20	71.6	2.2	591	2	US-09-156-979-1
21	71.6	2.2	591	2	US-09-387-341-68
22	67.2	2.1	702	3	US-08-842-976-2
23	67.2	2.1	702	3	US-09-213-397-2
24	67.2	2.1	702	3	US-09-416-489-2
25	66.2	2.0	331	4	US-09-325-932A-33
26	64.8	2.0	615	1	US-08-247-946A-5
27	64.8	2.0	615	5	PCT-US95-06420-5

28	61.2	1.9	1058	3	US-09-156-807-1	Sequence 1, Appli
29	60.6	1.9	1098	2	US-08-948-616-6	Sequence 6, Appli
30	60.6	1.9	1098	2	US-09-193-510-6	Sequence 6, Appli
31	60.6	1.9	1098	4	US-09-388-402-6	Sequence 6, Appli
32	60.4	1.9	1284	2	US-09-161-015-1	Sequence 1, Appli
33	60.4	1.9	1284	4	US-09-387-341-150	Sequence 150, App
34	59	1.8	7218	1	US-08-232-463-14	Sequence 14, Appl
35	57.4	1.8	2989	6	5378464-1	Patent No. 5378464
36	54.8	1.7	779	2	US-08-766-551-4	Sequence 4, Appli
37	54.6	1.7	1334	2	US-08-916-901-2	Sequence 2, Appli
38	54.6	1.7	1334	4	US-09-154-602-2	Sequence 2, Appli
39	53.6	1.6	1175	2	US-08-773-423-6	Sequence 6, Appli
40	51.6	1.6	624	4	US-09-415-522-1	Sequence 1, Appli
41	50.2	1.5	227	4	US-09-397-787-119	Sequence 119, App
42	50.2	1.5	1166	5	PCT-US96-12129B-1	Sequence 1, Appli
43	50	1.5	1315	4	US-09-721-822A-10	Sequence 10, Appli
44	49.8	1.5	1641	1	US-08-300-903A-8	Sequence 8, Appli
45	49.8	1.5	1872	4	US-09-801-052-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-08-824-873-2  
; Sequence 2, Application US/08824873  
; Patent No. 5843717  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Guegler, Karl  
; TITLE OF INVENTION: NOVEL RAB PROTEIN  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/824,873  
; FILING DATE: Filed Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0240 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1340 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: PANCNOT04  
; CLONE: 738957  
US-08-824-873-2

Query Match 4.8%; Score 156.6; DB 2; Length 1340;  
Best Local Similarity 59.0%; Pred. No. 7.8e-30;  
Matches 305; Conservative 0; Mismatches 209; Indels 3; Gaps 2;



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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,901
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 925 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LIVRUT04
; CLONE: 2514506
; US-08-916-901-4
;
; Query Match 4.8%; Score 156; DB 2; Length 925;
; Best Local Similarity 56.7%; Pred. No. 9.4e-30;
; Matches 288; Conservative 0; Mismatches 220; Indels 0; Gaps 0

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; APPLICANT: Corley, Neil C.  
 ; APPLICANT: Shah, Purvi  
 ; TITLE OF INVENTION: RAB PROTEINS  
 ; NUMBER OF SEQUENCES: 9  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 ; STREET: 3174 Porter Dr.  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/154,602  
 ; FILING DATE:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/916,901  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Billings, Lucy J.  
 ; REGISTRATION NUMBER: 36,749  
 ; REFERENCE/DOCKET NUMBER: PF-0367 US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415-855-0555  
 ; TELEFAX: 415-845-4166  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 925 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY: LIVRUT04  
 ; CLONE: 2514506  
 ; US-09-154-602-4

[illegible]

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RESULT 5
US-09-075-454-10
; Sequence 10, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto

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[illegible]

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RESULT 6
US-09-484-970B-142
; Sequence 142, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 1/2
; SOFTWARE: PERL Program
; SEQ ID NO 142
; LENGTH: 2612
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1
US-09-484-970B-142

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	Query Match	4.2%	Score 136.2;	DB 4;	Length 2612;
	Best Local Similarity	57.5%	Pred. No. 1.4e-24;		
	Matches 265;	Conservative 0;	Mismatches 193;	Indels 3;	Gaps 1;
Qy	57	TACGATGTCTGTCTCCGGCTGCTGTCATCGGGGACTCGGGGTGGGCAAGACCTGGCTG 116			
Db	91	TACGACCTTCACGGCAGAGTGTGCTCTGGAGACACAGGCGTCGGCAACATGTTTC 150			
Qy	117	CTGTGCGCTTTCACGCAACAGTGTCCACATCCT---CGCACATCTCCACCATCGGTGT 173			
Db	151	CTGATCCAAATCAAGACAGGGGCTTCCTGTCCGGAACCTTCATAGCACCGTCGGCATA 210			
Qy	174	GACTTTTAAGATGAAGACCATAGAGGTAGACGCGCATCAAAGTCGGATACAGATCTGGAC 233			
Db	211	GACTTCAGGAACAAGTGTGTGACTGTGGATGCGGTGAGATGAAGCTGCAGATCTGGGAC 270			
Qy	234	ACTCAGGGCAGGAGATACCAACCATCAAAAGCAGTACTATCTGGGGGCCAGGGG 293			
Db	271	ACCGCTGGCGAGGAACGGTTCGGAAGCGTCACCCATGCTTATTACAGAGATGCTCAGGCC 330			
Qy	294	ATATTTTTTGGCTATGACATTAGCAGCGCGCTCTTACCAGCACATCATGAAGTGGTC 353			
Db	331	TGTCTTCTGCTGTATGACATACCAACAAATCTCTTTTCGACAACTCAGGCGCTGGCTC 390			
Qy	354	AGTGACGTGGATGTGTACGCACCAAGAGGCGTCCAGAAAGATCCTTATTGGGAATAAGGCT 413			

Db 391 ACTGAGATTCTAGTATGCCAGAGGACGCTGGTGTGATCATGCTCTAGGCAACAAGCGC 450  
Oy 414 GATGAGGAGCAAGCGCAGCTGGGAAGAGAGCAAGCGCAGCAGCTGGCGAAGAGTAT 473  
Db 451 GATATGACGACGGAAGAGTGTATCGTTCCGAAGACGAGAGACCTTGGCCAGGGAGTAC 510  
Oy 474 GGCATGGAGCTTCTATGAACAAGTGCCTGCGACCAACCTCAA 514  
Db 511 GGTGTTCCCTTCTGGAGACCGACGCGCAAGACTGGCATGAA 551

## RESULT 7

US-08-773-423-4  
; Sequence 4, Application US/08773423  
; Patent No. 5869291  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Goli, Surya K.  
; APPLICANT: Bandman, Olga  
; TITLE OF INVENTION: NOVEL RAB PROTEINS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA: US/08773,423

; APPLICATION NUMBER: US/08773,423

; FILING DATE: Herewith

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0183 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-855-0555

; TELEFAX: 415-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 847 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: Consensus

; CLONE: Consensus

US-08-773-423-4

Query Match 3.7%; Score 120.6; DB 2; Length 847;  
Best Local Similarity 51.5%; Pred. No. 7.1e-21;  
Matches 301; Conservative 0; Mismatches 280; Indels 3; Gaps 1;

Oy 22 TCCCGGCCCCGCTGGCCCCCATGTCATGGCGAAGCAGTAGCTGTGCTGTCCGGGTGCTGC 81

Db 60 TCCGGANCAAGATGGGAATGGAACCTGAGGAAGATTATACTTTGTCTTCAAGGTGGTGC 119

Oy 82 TGATCGGGGACTCCGGGTGGCGAAGACCTCCCTGCTGTGCGGCTTACCCACACACAGT 141

Db 120 TGATCGGGGAATAGGTGTGGGGAAGACCAATCTACTCTCCCGATTACGCGGCAATGAGT 179

Oy 142 TCCACTCTCTCGACATCTCCACCATCGGTGTGTGACTTTAAGATGAAGACCATAGAGGTAG 201

Db 180 TCAGCCACGACAGCGCGCACCATCGGGTTGAGTTCTCCACCCGCACTGTGTGTTGG 239  
Oy 202 ACGGATCAAAAGTGGGATACAGATCTGGGACTGCGAGGCGAGAGATACCAAGCCA 261  
Db 240 GCACCGCTGCTGTCAAGGCTCAGATCTGGGACACACAGCTGGCCTGGAGCGGTACCGAGCCA 299  
Oy 262 TCACAAACAGTACTATCGGGGGCCCGAGGGGATATTTTGGTCTATGACATTAGCAGCG 321  
Db 300 TCACCTCGGCTACTATCTGTGTGAGTGGGGGCCCTCCTGTGTGTTGACCTTAACCAAGC 359  
Oy 322 AGCGCTTTTACCAGCACATCATGAAGTGGTGGTCAGTGAAGTGGATGAGTACGCCACCAAG 381  
Db 360 ACCAGACCTATGCTGTGTGGAGCGATGGCTGAAGGAGCTCTATGACCATGCTGAAGCCA 419  
Oy 382 GCGTCCAGAAGATCCTTATTTGGGAATAAGCTGTAGAGGAGCAGAAACGCGAGGTGGGAA 441  
Db 420 CGATCGTGTCTATGCTGTGGGTACAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 479  
Oy 442 GAGAGCAAGGCGCAGCAGCTGCGGAAGGAGTATGGCATGAGTCTCTATGAAACAAGTGCCT 501  
Db 480 CTGAGGAGCGCGAATGTTGCTGAAACAATGGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 539  
Oy 502 GCACCAACCTCAACATTAA---AGAGTCAATTCACGCGCTGACAGAGCTGGTGTGCGAGG 558  
Db 540 TGGACTCTACCAATGTTGAGCTAGCTTTGAGACTGTCTTGAAGAAATCTTTGCGAAGG 599  
Oy 559 CCCATGGAAGAGCTGGAAGGCCCTCCGGATGCGTGGCGAGCAAT 602  
Db 600 TGTCCACGACAGACAGAACACAGCATCCGGACCAATGCCATCACT 643

## RESULT 8

US-09-399-913-66

; Sequence 66, Application US/09399913

; Patent No. 6361971

; GENERAL INFORMATION:

; APPLICANT: Rhodes, Kenneth

; APPLICANT: Betty, Maria

; APPLICANT: Ling, Wenqian

; APPLICANT: An, Wenqian

; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR

; FILE REFERENCE: MNI-070CP2

; CURRENT APPLICATION NUMBER: US/09/399,913

; CURRENT FILING DATE: 1999-09-21

; EARLIER APPLICATION NUMBER: USSN 60/110,277

; EARLIER FILING DATE: 1998-11-30

; EARLIER APPLICATION NUMBER: USSN 60/110,033

; EARLIER FILING DATE: 1998-11-25

; EARLIER APPLICATION NUMBER: USSN 60/109,333

; EARLIER FILING DATE: 1998-11-20

; EARLIER APPLICATION NUMBER: USSN 09/298,731

; EARLIER FILING DATE: 1999-04-23

; EARLIER APPLICATION NUMBER: USSN 09/350,614

; EARLIER FILING DATE: 1999-07-09

; EARLIER APPLICATION NUMBER: USSN 09/350,874

; EARLIER FILING DATE: 1999-07-09

; NUMBER OF SEQ ID NOS: 73

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 66

; LENGTH: 639

; TYPE: DNA

; ORGANISM: Rattus sp.

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (1)...(636)

US-09-399-913-66

Query Match 3.5%; Score 113; DB 4; Length 639;

Best Local Similarity 52.2%; Pred. No. 5.1e-19;

Matches 251; Conservative 0; Mismatches 230; Indels 0; Gaps 0;

Oy 51 AAGCAGTACGATGCTGCTTCCGGGCTGTGCTGATCGGGGACTCCGGGGGTGGCAAGACC 110

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QY 111 TGCGTGTGTGCGCGCTTACCGACAAAGAGTTCCACTCTCCGACATCTCCACCATCGGT 170  
Db 61 TGCATTATGCTACAGTTTACAGACAAGAGGTTTCAGCCGGTGCATGACCTTCAAAATGGT 120  
QY 171 GTTGACTTTTAAGATGAAGACCATAGAGGTAGAGCGCATCAAAAGTGGGATACAGATCGT 230  
Db 121 GTAGAGTTTGGTGTCTCGAATGATAACCATTTGATGGGAAACAGATAAACTCCAGATCTGG 180  
QY 231 GACACTCAGCGGAGGAGATACACAGACCATCACAAGCAGTACTATCGCGGGCCAG 290  
Db 181 GATACACAGCGGAGGAGTCTTTCGTTCTATCACAAGGTCAATTTACAGAGGTGCAGCG 240  
QY 291 GGGATATTTTGGTCTATGATACATAGAGCGGAGCGGTCTTACAGACATCATGAAGTGG 350  
Db 241 GGGCTTTTACTAGTGTATGATATACAAAGGAGAGACAGCTTCAACCACTTGACAACCTGG 300  
QY 351 GTCAGTACGCTGGATGAGTACGACCAAGAGGCGTCCAGAGATCCTTATTGGGAATAAG 410  
Db 301 TTAGAAGACGCGCGTACGATTCGAATTCACAATGCTCATGCTTATTGGAAATAAA 360  
QY 411 GCTCATGAGGAGAGAAACGCGAGTGGGAGAGAGCAAGCGGAGCGAGCTGGCGGAAGGAG 470  
Db 361 AGTCACTTAGAATCTAGGAGAGAGTCAAAAGAGAGAGGTGAAGCTTTTGCACGAGAG 420  
QY 471 TATGCGATGGAATCTTATGAACAAAGTGCCTGCAACCACTCAACATTAAGAGATCTTC 530  
Db 421 CATGGACTTATCTTCAATGGAACCTTCTGCCAAGACTGCTTCTAATGTAGAGAGGCAATTT 480  
QY 531 A 531  
Db 481 A 481

RESULT 9  
US-08-888-077A-28  
; Sequence 28, Application US/08888077A  
; Patent No. 6020143  
; GENERAL INFORMATION:  
; APPLICANT: ST. GEORGE-HYSLOP, PETER H  
; APPLICANT: ROMMENS, JOHANNA M  
; APPLICANT: FRASER, PAUL E  
; TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED  
; TITLE OF INVENTION: TO ALZHEIMER'S DISEASE AND USES THEREFOR.  
; NUMBER OF SEQUENCES: 41  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK  
; STREET: 600 SOUTH AVENUE WEST  
; CITY: WESTFIELD  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07090-1497  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/888.077A  
; FILING DATE: 03-JUL-1997  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/592,541  
; FILING DATE: 26-JAN-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PALISI, THOMAS M  
; REGISTRATION NUMBER: 36,629  
; REFERENCE/DOCKET NUMBER: SCHERING 3.0-017 CIP CIP IV  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (908) 654-5000  
; TELEFAX: (908) 654-7866

; INFORMATION FOR SEQ ID NO: 28:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 970 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 1..970  
; OTHER INFORMATION: /note="Y2H9"  
US-08-888-077A-28  
Query Match 3.4%; Score 110; DB 3; Length 970;  
Best Local Similarity 52.9%; Pred. No. 3.5e-18;  
Matches 236; Conservative 0; Mismatches 210; Indels 0; Gaps 0;  
QY 55 AGTACGATGTGCTGTTCGCGCTGCTCTGATCGGGACTCCGGGTGGGCAAGACCTGCC 114  
Db 73 AGTACGACTACCTCTTAAAGTTGCTCTTATTTGGAGATTCTGGTGTGGAAAGAGTAATC 132  
QY 115 TGTGTGCGCGCTTACCGACAAAGAGTTCCACTCTCTCGCACATCTCCACCATCGGTGTTG 174  
Db 133 TCGTGTCTCGATTACTCGAATGAGTTTAATCTGGAAGCAAGAGACCACTTGGAGTAG 192  
QY 175 ACTTTAAGATGAAGACCATAGAGGTAGAGCGGATCAAAAGTGGGATACAGATCTGGGACA 234  
Db 193 AGTTTGCAACAAGAAGCATCCAGTTGTATGGAAGAAACAATAAAGGCACAGATATGGGACA 252  
QY 235 CTCGAGGGCAGGAGAGATACCGACCATCACAAGCAGTACTATCGCGGGCCAGGGGA 294  
Db 253 CAGCAGGGCAAGAGCGATATCGAGCTTAACATFCACATATATCTGGAGCTGTAGGTG 312  
QY 295 TATTTTGGTCTATGACATTAGCAGCGAGCTCTTTACCAGCACATCATCAAGTGGGTCA 354  
Db 313 CCTATTGTTATGACATTGCTTAACATCTCACATATGAAATGTAGAGCGATGCTGA 372  
QY 355 GTGACGTGGATAGTAGCGCACAGAGGCGTCCAGAAAGTCCCTTATTTGGAAATAAGGCTG 414  
Db 373 AAGAACTGAGAGATCATGCTGTAGTAGTAACATTTTATCATGCTTTGGGCAATAAGAGTG 432  
QY 415 ATGAGGAGCAGAAACGCGAGTGGGAGAGAGCAAGCGGACAGCTGGGCAAGAGATG 474  
Db 433 ATCTAGTCACTTCAGGGCAGTTCTTACAGATGAAGCAAGAGCTTTTGCAGAAAGAATG 492  
QY 475 GCATGGACTTCTATGAACAAAGTGCC 500  
Db 493 GTTTGTCATTTCATGAAACTTCGGCC 518

RESULT 10  
US-08-741-411-6  
; Sequence 6, Application US/08741411  
; Patent No. 6124116  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Au-Young, Janice  
; TITLE OF INVENTION: NOVEL RAB PROTEINS  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/741.411  
; FILING DATE: Herewith



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; Patent No. 6124116
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/741,411
; FILING DATE: Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0139 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 890 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: Consensus
; US-08-741-411-4

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Query Match 2.58; Score 80.6; DB 3; Length 890;
Best Local Similarity 54.08; Pred. No. 8.2e-11;
Matches 183; Conservative 2; Mismatches 151; Indels 3; Gaps 1;

Qy 30 CCGCTGGCCCGCCAGTCCAGTACGATGTGCTGCTCCGGCTGCTGATCGGG 89
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Qy 90 GACTCCGGGGTGGGACAGACCTGCTGTGTCGGCTTACCGACACAGGATTCCTCCATCC 149
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Qy 150 TCGCACATCTCCACCATCGGTGTTGACTTTAAGATGAAGACCATAGAGGTAGACGGATC 209
Db 156 CACTACCGGGCCACCATCGGGGTGGACTTCGCCCTCAAGGTCTCACTGGGACGAGG 215

Qy 210 A---AAGTCCGCGATACAGATCTGGGACACTCGAGGCGAGGAGAGATACCAACCATCACA 266
Db 216 ACTCTGGTGGCGCTCGACCTGTGGACATCGCGGGGAGGAGGAGGATTTGGCAACATGACC 275

Qy 267 AAGCAGTACTATCGCGGGGGCCAGGGGATATTTTGGTCTATGACATAGCAGGAGCGGC 326
Db 276 CGAGTATACACAGGAAGCTGTTGGTCTTTTGTAGTCTTTGATATATCAAGAAGTTCC 335

Qy 327 TCTTACCAGCACATCATCAAGTGGTCTCAGTGACGTGGAT 365
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RESULT 13
US-09-075-454-8
; Sequence 8, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1172 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: KIDNOT05
; CLONE: 627565
; US-09-075-454-8

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Query Match 2.58; Score 80; DB 4; Length 1172;
Best Local Similarity 54.48; Pred. No. 1.3e-10;
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Qy 125 CTTTACCGACAGAGTTCCATCTCGACATCTCCACCATCGGTGTTGACATTTAAGAT 184
Db 238 GTTCTGCAAGACACCTTTGATAGAATTACAAAGGCCACCATTTGGAGTTCGAGAT 297

Qy 185 GAAGACCATAGAGTACAGCGCATCAAGTCCGATACAGATCTGGGACACTCGAGGCA 244
Db 298 GGAACGATTTAGGTGCTGGGCATTCCTTCAGTTTGCAGTTTGGGATACCGCTGGGCA 357

Qy 245 GGAGAGATACAGACCATCAAAAGACGATCTATCGCGGGGCCCGGAGGATATTTTGGT 304
Db 358 GGAGAGGTTCAAATGCATTCATCAACCTACTATAGGAGGAGCTCAAGCCATCATCTGT 417

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Db 658 GGAACGATTGAGGTGCTGGGCATTCCCTTCAGTTTGCAGCTTTGGGATACCGCTGGGCA 717  
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Db 718 GGAGAGGTTCAAATGCATTGCAATCAACCTACTATAGAGGAGCTCAAAGCCATCATCATTTGT 777  
Qy 305 CTATGACATTAGCAGCGAGCGCTCTTACCAGCACATCATCAAGTGGGTGAGTGACG 360  
Db 778 CTTCAACCTGAATGATGTGGCATCTCTGGAACATACCAAGCAGTGGCTGGCCGATG 833

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Job time : 87 secs

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: January 16, 2003, 02:47:19 ; Search time 283 Seconds  
(without alignments)  
5131.424 Million cell updates/sec

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Perfect score: 3257

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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 393868 seqs, 222934149 residues

Total number of hits satisfying chosen parameters: 787736

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications\_NA:\*

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- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*
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- 11: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	2696.6	82.8	28770	10	US-09-817-198A-3
3	1160.6	35.6	2021	9	US-09-764-868-88
4	599	18.4	601	10	US-09-817-198A-28
5	599	18.4	601	10	US-09-817-198A-29
6	540	16.6	601	10	US-09-817-198A-30
7	534.2	16.4	566	9	US-09-764-868-507
8	516.6	15.9	601	10	US-09-817-198A-31
9	477.4	14.7	481	10	US-09-920-300A-303
10	477.4	14.7	481	12	US-10-033-528-303
11	438.8	13.5	463	10	US-09-964-824A-26
12	306.8	9.4	310	9	US-10-046-935-1930
13	306.8	9.4	310	9	US-09-878-178-1930
14	217.8	6.7	624	10	US-09-794-257-9
15	217.8	6.7	1161	10	US-09-794-257-7
16	217.8	6.7	2497	10	US-09-834-975-879
17	217.8	6.7	2497	10	US-09-834-975-885
18	217.8	6.7	2497	10	US-09-834-975-894
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20	210	6.4	601	10	US-09-817-198A-32	Sequence 32, Appl
21	198.4	6.1	1537	10	US-09-925-300-631	Sequence 631, App
22	192	5.9	1274	10	US-09-925-302-91	Sequence 91, Appl
23	173.4	5.3	651	9	US-09-938-842A-836	Sequence 836, App
24	156	4.8	925	10	US-09-967-736-4	Sequence 4, Appli
25	149.6	4.6	1673	9	US-09-954-531-1359	Sequence 1359, Ap
26	146	4.5	601	10	US-09-817-198A-33	Sequence 33, Appl
27	144.6	4.4	3936	10	US-09-919-172-49	Sequence 49, Appl
28	142.6	4.4	585	10	US-09-917-800A-1461	Sequence 1461, Ap
29	136.2	4.2	875	12	US-10-051-986-10	Sequence 10, Appl
30	136.2	4.2	1116	10	US-09-794-257-13	Sequence 13, Appl
31	136.2	4.2	1157	9	US-10-108-605-44	Sequence 44, Appl
32	136.2	4.2	2674	10	US-09-817-199A-1	Sequence 1, Appli
33	135.4	4.2	1316	9	US-09-764-868-493	Sequence 493, App
34	134.6	4.1	2623	9	US-09-764-868-71	Sequence 71, Appl
35	132.6	4.1	896	10	US-09-770-445-478	Sequence 478, App
36	131.8	4.0	576	10	US-09-794-257-15	Sequence 15, Appl
37	127.4	3.9	881	10	US-09-770-445-529	Sequence 529, App
38	124.2	3.8	4083	10	US-09-817-182-1	Sequence 1, Appli
39	123.6	3.8	1022	10	US-09-920-300A-1703	Sequence 1703, Ap
40	123.6	3.8	1022	12	US-10-033-528-1703	Sequence 1703, Ap
41	120.8	3.7	857	10	US-09-917-800A-1426	Sequence 1426, App
42	120.8	3.7	1129	10	US-09-925-301-235	Sequence 235, App
43	120.6	3.7	847	10	US-09-988-974-4	Sequence 4, Appli
44	120	3.7	654	9	US-09-938-842A-2113	Sequence 2113, Ap
45	119.4	3.7	609	9	US-09-938-842A-832	Sequence 832, App

#### ALIGNMENTS

##### RESULT 1

US-09-817-198A-1

; Sequence 1, Application US/09817198A

; Patent No. US20020146758A1

; GENERAL INFORMATION:

; APPLICANT: YE, Jane et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE PROTEINS, AND USES THEREOF

; FILE REFERENCE: CLO01188

; CURRENT APPLICATION NUMBER: US/09/817.198A

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1

; LENGTH: 3257

; TYPE: DNA

; ORGANISM: Human

; US-09-817-198A-1

Query Match 100.0%; Score 3257; DB 10; Length 3257;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 3257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TGCCCGCTGCCCGCCGAGTTCCCGCCCGCTCCCGCCCGCTCATGGCGAAGCAGTACG	60
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Qy	61	ATGTGCTCTTCCGGCTGCTGCTGATCGGGGACTCCGGGTGGGCAAGACCTGCCTGCTGT	120
Db	61	ATGTGCTCTTCCGGCTGCTGCTGATCGGGGACTCCGGGTGGGCAAGACCTGCCTGCTGT	120
Qy	121	CCCGCTTCCGCGAAGCAGTTCCACTCTCCACATCTCCACATCGGTGTGACTTTA	180
Db	121	CCCGCTTCCGCGAAGCAGTTCCACTCTCCACATCTCCACATCGGTGTGACTTTA	180
Qy	181	AGATGAAGACCATAGAGTAGACGCATCAAGTCGGATACAGATCTGGGACACTGCAG	240
Db	181	AGATGAAGACCATAGAGTAGACGCATCAAGTCGGATACAGATCTGGGACACTGCAG	240
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Qy 1733 GGTTAAGCAAGGAGGAGCTGGCCAGGGACAGCAGTTTGCACAGACAGAGGGGAATGTAG 1792  
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Qy 2273 CGTGCTGCAGCCAAACAAAGAACTGGGTGTGAGTATTCATCACTAAACCAAAAT 2332  
Db 27362 CGTGCTGCAGCCAAACAAAGAACTGGGTGTGAGTATTCATCACTAAACCAAAAT 27421  
Qy 2333 CCAGGGCACTCATATGTGAAGATGAAGAACCTCACTTCTTACTCTCCAAAAGAGGTG 2392  
Db 27422 CCAGGGCACTCATATGTGAAGATGAAGAACCTCACTTCTTACTCTCCAAAAGAGGTG 27481  
Qy 2393 GGGAAAGAACCATCAAACTTTCTCTCTTCCCTGACTTACCAACCAAGGAAACACAGCAGGAGG 2452  
Db 27482 GGGAAAGAACCATCAAACTTTCTCTCTTCCCTGACTTACCAACCAAGGAAACACAGCAGGAGG 27541  
Qy 2453 GTGGCTCAGGACTTAGGACAGGGTATAGCTTAGATGTGGAAACCAAGAGAGCAGGA 2512  
Db 27542 GTGGCTCAGGACTTAGGACAGGGTATAGCTTAGATGTGGAAACCAAGAGAGCAGGA 27601  
Qy 2513 ACTTGTAAATCACTGGCTAATCAGAAAAAGGAGACAGCTAACTCTAGGATGAAGCTGTGAC 2572  
|||||

Db 27602 AGTTGTAATCACTGGCTAATGAGAAAAAGGACAGCTAACTCTAGGATGAAGCTGTGAC 27661  
Qy 2573 TAGGCTGGAGTTGCTTCCCTTGAAGATGGGACTCCTTGGGTATCAAGACCTATGCCACATC 2632  
Db 27662 TAGGCTGGAGTTGCTTCCCTTGAAGATGGGACTCCTTGGGTATCAAGACCTATGCCACATC 27721  
Qy 2633 ACACCTGGGCTTAGGGAAGTATAGTATGGCAGCCCTCAAGTCTGTCTTTCAGCCAGGACTT 2692  
Db 27722 ACACCTGGGCTTAGGGAAGTATAGTATGGCAGCCCTCAAGTCTGTCTTTCAGCCAGGACTT 27781  
Qy 2693 GAGAAGTTATATTTGGCAGTGGCTCCATCTGTGGACCAAGTATTTTCAGCTTTCCCTGAAG 2752  
Db 27782 GAGAAGTTATATTTGGCAGTGGCTCCATCTGTGGACCAAGTATTTTCAGCTTTCCCTGAAG 27841  
Qy 2753 ATCAGCAGGGGTGCCATTCATTGTCTTCTCTAGCCCCCTCAGGAAGAAGACTAT 2812  
Db 27842 ATCAGCAGGGGTGCCATTCATTGTCTTCTCTAGCCCCCTCAGGAAGAAGACTAT 27901  
Qy 2813 ATTGTACTGTACCCCTAGGGGTTCTGGAAGGAAACATCGGAATCAGGATTTCTATAGACT 2872  
Db 27902 ATTGTACTGTACCCCTAGGGGTTCTGGAAGGAAACATCGGAATCAGGATTTCTATAGACT 27961  
Qy 2873 GATAGCCCTATCCACAAGGGCCATGACTGGGAAAAGGTATGGGAGCAGAAGAGAAATTG 2932  
Db 27962 GATAGCCCTATCCACAAGGGCCATGACTGGGAAAAGGTATGGGAGCAGAAGAGAAATTG 28021  
Qy 2933 GGATTTTAGGGTACAGCTACGCTACCCCTAAACTTTTGTGGCCTGGGCATGCTTTGAG 2992  
Db 28022 GGATTTTAGGGTACAGCTACGCTACCCCTAAACTTTTGTGGCCTGGGCATGCTTTGAG 28081  
Qy 2993 GCCACACTGTTAAGCAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTGCT 3052  
Db 28082 GCCACACTGTTAAGCAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTGCT 28141  
Qy 3053 GTCTTGAGACTCCATCAGCCCCAGGCACGCCACCTGCTCCTGAGCCTCCACTATCTCCC 3112  
Db 28142 GTCTTGAGACTCCATCCAGCCCCAGGCACGCCACCTGCTCCTGAGCCTCCACTATCTCCC 28201  
Qy 3113 TGTGACGGGTGAACCTGCTACTGTCTCGGGTCCATATATGAATTTGAGCAGGGTT 3172  
Db 28202 TGTGACGGGTGAACCTGCTACTGTCTCGGGTCCATATATGAATTTGAGCAGGGTT 28261  
Qy 3173 CATCTATTTAAACACAGATGTTTACAAAATAAAGATTATTTCAAACCAAC 3223  
Db 28262 CATCTATTTAAACACAGATGTTTACAAAATAAAGATTATTTCAAACCAAC 28312  
|||||

RESULT 3

US-09-764-868-88  
; Sequence 88, Application US/09764868  
; Patent No. US2002016871A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 88  
; LENGTH: 2021  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-88

Query Match 35.6%; Score 1160.6; DB 9; Length 2021;  
Best Local Similarity 99.2%; Pred. No. 7.8e-235;  
Matches 1166; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 2 GCCCGCTGCCCGCCCGCAGTTCCCGGGCCCCCGCTCGGCCCGAGTCATGGCGAAGCAGTAGCA 61  
Db 38 GCCCGCTGCCCGCCCGCAGTTCCCGGGCCCCCGCTCGGCCCGAGTCATGGCGAAGCAGTAGCA 97

Qy 62 TGTGCTGTTCCGGCTGCTGATCGGGACTCCGGGTGGCAAGACCTCCCTGCTGTG 121  
Db 98 TGTGCTGTTCCGGCTGCTGATCGGGACTCCGGGTGGCAAGACCTCCCTGCTGTG 157  
Qy 122 CCGTTTACCACACACGAGTTCCACTCCTCGACATCTCCACCATCGGTGTGATTTAA 181  
Db 158 CCGTTTACCACACACGAGTTCCACTCCTCGACATCTCCACCATCGGTGTGATTTAA 217  
Qy 182 GATGAAGACCATAGAGGTAGACGCATCAAAAGTCAGATCGGATCGGGACACTGCAGG 241  
Db 218 GATGAAGACCATAGAGGTAGACGCATCAAAAGTCAGATCGGATCGGGACACTGCAGG 277  
Qy 242 GCAGGAGATACACGACCATCAAAAGCAGTACTATCGCGGGCCAGGGGATATTTT 301  
Db 278 GCAGGAGATACACGACCATCAAAAGCAGTACTATCGCGGGCCAGGGGATATTTT 337  
Qy 302 GGTCTATGACATTAGCAGCGAGCGCTTTACACGACATCATGAAGTGGTCACTGAGT 361  
Db 338 GGTCTATGACATTAGCAGCGAGCGCTTTACACGACATCATGAAGTGGTCACTGAGT 397  
Qy 362 GGATGAGTACCCACGAGAGCGTCCAGAAATCCTTATTGGGAATAGGCTGATGAGGA 421  
Db 398 GGATGAGTACCCACGAGAGCGTCCAGAAATCCTTATTGGGAATAGGCTGATGAGGA 457  
Qy 422 GCAGAAACCGCAGGTGGGAAGAGAGCAGCGTGGCAAGGAGTATGGCATGGA 481  
Db 458 GCAGAAACCGCAGGTGGGAAGAGAGCAGCGTGGCAAGGAGTATGGCATGGA 517  
Qy 482 CTTCTATGAACAAAGTGCCTGCACCAACCTCAACATTAAGAGTCATTACGCGCTGTGAC 541  
Db 518 CTTCTATGAACAAAGTGCCTGCACCAACCTCAACATTAAGAGTCATTACGCGCTGTGAC 577  
Qy 542 AGAGCTGTGCTGAGGCGCCATAGAGAGGAGCTGGAAGGCTTCGGATGCGTGGCAGCA 601  
Db 578 AGAGCTGTGCTGAGGCGCCATAGAGAGGAGCTGGAAGGCTTCGGATGCGTGGCAGCA 637  
Qy 602 TGAGTTGGCACTGGCAGAGCTGGAGGAGGAGGGCAAAACCCGAGGGCCAGCGAACTC 661  
Db 638 TGAGTTGGCACTGGCAGAGCTGGAGGAGGAGGGCAAAACCCGAGGGCCAGCGAACTC 697  
Qy 662 TTCGAAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 721  
Db 698 TTCGAAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 757  
Qy 722 TCAGGAGCCCGTGGGCAGACAGGGGAGCCGGGCTTTGGCCCTGCTGCTGCTGCTGCTG 781  
Db 758 TCAGGAGCCCGTGGGCAGACAGGGGAGCCGGGCTTTGGCCCTGCTGCTGCTGCTGCTG 817  
Qy 782 TGATGACCCCTATTGAGTATCAGTAGCCACTACTCCCCCTGCTGCTGCTGAGAGCGGCTC 841  
Db 818 TGATGACCCCTATTGAGTATCAGTAGCCACTACTCCCCCTGCTGCTGCTGAGAGCGGCTC 877  
Qy 842 TGCTGTATCTCAAGCAGCCCTGTCCCCAGCCCGTCCACCCCTGGAGTGGTCTTTTCAG 901  
Db 878 TGCTGTATCTCAAGCAGCCCTGTCCCCAGCCCGTCCACCCCTGGAGTGGGCTTTTCAG 937  
Qy 902 CTTGTTTCCCGACGACAGGCGCTGTAGACCCCGACGATGTGGCGAAGCACTGTCTCA 961  
Db 938 CTTGTTTCCCGACGACAGGCGCTGTAGACCCCGACGATGTGGCGAAGCACTGTCTCA 997  
Qy 962 CCATCCCGACCCACGACACAGCCAGGCGTGGAGTCCAGGCGCACTTTCAGTGTCTCC 1021  
Db 998 CCATCCCGACCCACGACACAGCCAGGCGTGGAGTCCAGGCGCACTTTCAGTGTCTCC 1057  
Qy 1022 TTTCTCCGTGATCGTGTCTTCTCTGCTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1081  
Db 1058 TTTCTCCGTGATCGTGTCTTCTCTGCTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1117  
Qy 1082 GACCCCTCCCGTCCGGTGGTTCGATCAAGCTCTCTCAAAACCCCGTCCCGGTGCTGTC 1141  
Db 1118 GACCCCTCCCGTCCGGTGGTTCGATCAAGCTCTCTCAAAACCCCGTCCCGGTGCTGTC 1177

Qy 1142 CTGCTGTGTGAGCTCGCTCTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1176  
Db 1178 CTGCTGTGTGAGCTCGCTCTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1212

RESULT 4  
US-09-817-198A-28  
; Sequence 28, Application us/09817198A  
; Patent No. US20020146758A1  
; GENERAL INFORMATION:  
; APPLICANT: YE, Jane et al.  
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001188  
; CURRENT APPLICATION NUMBER: US/09/817,198A  
; CURRENT FILING DATE: 2001-03-27  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 28  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-817-198A-28

Query Match 18.4%; Score 599; DB 10; Length 601;  
Best Local Similarity 99.7%; Pred. No. 5.8e-117;  
Matches 599; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1076 TTCTCTGACCCCTCCCTCCCGTGGTTCGTATCAAAAGCTCTCAAAACCCCGTCCCGG 1135  
Db 1 TTCTCTGACCCCTCCCTCCCGTGGTTCGTATCAAAAGCTCTCAAAACCCCGTCCCGG 60  
Qy 1136 TGTGTCTGTGTGTGACGTGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1195  
Db 61 TGTGTCTGTGTGTGACGTGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120  
Qy 1196 CCCAGGCTCGTGGGAGGTTCACCCCTTGGATCCAGGAAGAACCTCCACCCCTGCTCGT 1255  
Db 121 CCCAGGCTCGTGGGAGGTTCACCCCTTGGATCCAGGAAGAACCTCCACCCCTGCTCGT 180  
Qy 1256 GGGTGGGCAAAAGGCTACAGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1315  
Db 181 GGGTGGGCAAAAGGCTACAGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240  
Qy 1316 TGCCATGGGCTGCTCTCCCGAGTGCCTGCGGAAAGTGGAGATCGAGGTAGGAGGAAC 1375  
Db 241 TGCCATGGGCTGCTCTCCCGAGTGCCTGCGGAAAGTGGAGATCGAGGTAGGAGGAAC 300  
Qy 1376 AGCAACCGGGAGTCTCGAGCTGGGCTGCGCTTACCTTACCCATTTCCCGACCCAGAG 1435  
Db 301 RGCACACAGGAGTCTCGAGCTGGGCTGCGCTTACCTTACCCATTTCCCGACCCAGAG 360  
Qy 1436 CTTTGGCCCTGCTTGGCTGCGGCTGCTCTTTGGGAACTGAGCTCAGAGGCAAGTGC 1495  
Db 361 CTTTGGCCCTGCTTGGCTGCGGCTGCTCTTTGGGAACTGAGCTCAGAGGCAAGTGC 420  
Qy 1496 TTCAGAGAAGGAACAAATGAGGGTGGCAGGGATAAAAGTCACTTCTCTCTCTCTCT 1555  
Db 421 TTCAGAGAAGGAACAAATGAGGGTGGCAGGGATAAAAGTCACTTCTCTCTCTCTCT 480  
Qy 1556 TCCCATGAGCATGAACAAATTTCTCTCCACCTGGCTCCCAAAATTTAAAGATGTGGAC 1615  
Db 481 TCCCATGAGCATGAACAAATTTCTCTCCACCTGGCTCCCAAAATTTAAAGATGTGGAC 540  
Qy 1616 AAGGCTCTGGGTACTCCAGGGGCAAGGAGAGCCCTGGGGTCACTGACACTGTCAAGGCA 1675  
Db 541 AAGGCTCTGGGTACTCCAGGGGCAAGGAGAGCCCTGGGGTCACTGACACTGTCAAGGCA 600  
Qy 1676 A 1676  
Db 601 A 601

## RESULT 5

US-09-817-198a-29  
; Sequence 29, Application US/09817198A  
; Patent No. US20020146758A1  
; GENERAL INFORMATION:  
; APPLICANT: YE, Jane et al.  
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001188  
; CURRENT APPLICATION NUMBER: US/09/817,198A  
; CURRENT FILING DATE: 2001-03-27  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 29  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-817-198a-29

Query Match 18.4%; Score 599; DB 10; Length 601;  
Best Local Similarity 99.7%; Pred. No. 5.8e-117;  
Matches 599; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1083 ACCCTCCCTCCCGTGGCTTCGTATCAAAAGCTGCTCAAAACCCCGTCCCGGTGTGTC 1142  
Db 1 ACCCTCCCTCCCGTGGCTTCGTATCAAAAGCTGCTCAAAACCCCGTCCCGGTGTGTC 60  
QY 1143 TGTGTGTGAGCTGCGCTCTTCTTCCCTTCCCTAAGCTATCCAAAGGGATGGACCCAGGC 1202  
Db 61 TGTGTGTGAGCTGCGCTCTTCTTCCCTTCCCTAAGCTATCCAAAGGGATGGACCCAGGC 120  
QY 1203 TCGTGGGAGGTTCCACCCCTTGGATCCAGGAAGACCTCCACCTCCCTCGTGGGTGG 1262  
Db 121 TCGTGGGAGGTTCCACCCCTTGGATCCAGGAAGACCTCCACCTCCCTCGTGGGTGG 180  
QY 1263 CCAAAGGCTACAGGGTCTTCTTCCCTTCCCGCCACCCCTGCTGCTCATGTGCCATG 1322  
Db 181 CCAAAGGCTACAGGGTCTTCTTCCCTTCCCGCCACCCCTGCTGCTCATGTGCCATG 240  
QY 1323 GGCTGCTCCCGAGTGCCTGCGAAGTGGAGATCGAGTCCAGTGGAGGGAACAGCAACC 1382  
Db 241 GGCTGCTCCCGAGTGCCTGCGAAGTGGAGATCGAGTCCAGTGGAGGGAACAGCAACC 300  
QY 1383 GGGAGTCTCGAGCTGGGGCTGCCCTACCTCTACCCATTCCCGACCCAGAGCTTTGCC 1442  
Db 301 RGGAGTCTCGAGCTGGGGCTGCCCTACCTCTACCCATTCCCGACCCAGAGCTTTGCC 360  
QY 1443 CTTGCTTGGCTGCCCGCTGCCCTTTTGGGGAAGTGAAGTCCAGGAGGAGTGTTCAGAG 1502  
Db 361 CTTGCTTGGCTGCCCGCTGCCCTTTTGGGGAAGTGAAGTCCAGGAGGAGTGTTCAGAG 420  
QY 1503 AAGAAACAAATGAGGGTGGCAGGATAAAGTCAACCTCCATCTCTACCTCCCATG 1562  
Db 421 AAGAAACAAATGAGGGTGGCAGGATAAAGTCAACCTCCATCTCTACCTCCCATG 480  
QY 1563 CAGCATGAACACAAATTTCTCTCCACCTGGCTCCCAATTTAAAGATGTGGACCAAGGCCT 1622  
Db 481 CAGCATGAACACAAATTTCTCTCCACCTGGCTCCCAATTTAAAGATGTGGACCAAGGCCT 540  
QY 1623 GTGGGTACTCCAGGGCAAGAGAGCCCTGGGTGAGTGCATGTGACGCCAACCAATGC 1682  
Db 541 GTGGGTACTCCAGGGCAAGAGAGCCCTGGGTGAGTGCATGTGACGCCAACCAATGC 600  
QY 1683 A 1683  
Db 601 A 601

## RESULT 6

US-09-817-198a-30  
; Sequence 30, Application US/09817198A

; Patent No. US20020146758A1  
; GENERAL INFORMATION:  
; APPLICANT: YE, Jane et al.  
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001188  
; CURRENT APPLICATION NUMBER: US/09/817,198A  
; CURRENT FILING DATE: 2001-03-27  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 30  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-817-198a-30

Query Match 16.6%; Score 540; DB 10; Length 601;  
Best Local Similarity 99.6%; Pred. No. 1.5e-104;  
Matches 540; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2682 GCCAGGAGCTTGAGAGCTTATATTGGCAGTGGCTCCAATCTGTGGACCAAGTATTTCCAGC 2741  
Db 1 GCCAGGAGCTTGAGAGCTTATATTGGCAGTGGCTCCAATCTGTGGACCAAGTATTTCCAGC 60  
QY 2742 TTTCCCTGAAAGTACAGCAGGGTGCCATTCAATTGCTCTCTCTAGCCCCCTCAGAA 2801  
Db 61 TTTCCCTGAAAGTACAGCAGGGTGCCATTCAATTGCTCTCTCTAGCCCCCTCAGAA 120  
QY 2802 AGAAGGACTATATTGTACTGTACCTTAGGGTTCTGGAAGGGAACATGGAATCAGGA 2861  
Db 121 AGAAGGACTATATTGTACTGTACCTTAGGGTTCTGGAAGGGAACATGGAATCAGGA 180  
QY 2862 TTCTATAGACTGATAGCCCTATCCACAAGGGCCATCACTGGGAAAGGTATGGAGCAG 2921  
Db 181 TTCTATAGACTGATAGCCCTATCCACAAGGGCCATCACTGGGAAAGGTATGGAGCAG 240  
QY 2922 AAGGAGAAATTTGGGATTTAGGGTGCAGCTACGCTACCCCTAAACTTTTGGTGGGCTGGG 2981  
Db 241 AAGGAGAAATTTGGGATTTAGGGTGCAGCTACGCTACCCCTAAACTTTTGGTGGGCTGGG 300  
QY 2982 CATCTCTTGGAGCCACAGACTGTTAAGCAGCTCTGCTGGCTGTTTACTGCTACACCT 3041  
Db 301 YATGCTTGGAGCCACAGACTGTTAAGCAGCTCTGCTGGCTGTTTACTGCTACACCT 360  
QY 3042 CTCACCTGCTGTCTTGAGACTCCATCCAGCCCGCAGCAGCCACCTGCTCCTGAGCCTC 3101  
Db 361 CTCACCTGCTGTCTTGAGACTCCATCCAGCCCGCAGCAGCCACCTGCTCCTGAGCCTC 420  
QY 3102 CACTATCTCCCTGTGACGGGTGAACCTTCGTGTACTGTGCTCGGGTCCATATATGAATTG 3161  
Db 421 CACTATCTCCCTGTGACGGGTGAACCTTCGTGTACTGTGCTCGGGTCCATATATGAATTG 480  
QY 3162 TGAGCAGGGTTCATCTATTTTAAACACAGATGTTTACAAATTAAGATTTTCAAAACCA 3221  
Db 481 TGAGCAGGGTTCATCTATTTTAAACACAGATGTTTACAAATTAAGATTTTCAAAACCA 540  
QY 3222 CC 3223  
Db 541 CC 542

## RESULT 7

US-09-764-868-507  
; Sequence 507, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper



; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 507  
; LENGTH: 566  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (484)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (493)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (538)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (563)  
; OTHER INFORMATION: n equals a,t,g, or c  
; US-09-764-868-507

Query Match 16.4%; Score 534.2; DB 9; Length 566;  
Best Local Similarity 98.9%; Pred. No. 2.4e-103;  
Matches 533; Conservative 2; Mismatches 4; Indels 0; Gaps 0;  
  
QY 2 GCCCGCTGCCCGCCGAGTTCCCGGGCCCGCTGCCCGCCAGTCATGGCAGCAGTACGA 61  
DB 28 GCCCGCTGCCCGCCGAGTTCCCGGGCCCGCTGCCCGCCAGTCATGGCAGCAGTACGA 87  
  
QY 62 TGTGCTGTTCCGGTGCTGTGATCGGGGACTCCGGGGTGGGCAAGACCTGCCCTGCTGTG 121  
DB 88 TGTGCTGTTCCGGTGCTGTGATCGGGGACTCCGGGGTGGGCAAGACCTGCCCTGCTGTG 147  
  
QY 122 CCGCTTACCCGACACAGTTCCTCCTCCGACATCTCCACCATCGGTGTGACTTTAA 181  
DB 148 CCGCTTACCCGACACAGTTCCTCCTCCGACATCTCCACCATCGGTGTGACTTTAA 207  
  
QY 182 GATGAAGACCATAGAGGTAGACGGCATCAAGTCCGGATACAGATCTGGGACATCGCAGG 241  
DB 208 GATGAAGACCATAGAGGTAGACGGCATCAAGTCCGGATACAGATCTGGGACATCGCAGG 267  
  
QY 242 GCAGGAGATACAGACCATCAAGAGCAGTACTATCGGGGGCCCGAGGGGATATTTT 301  
DB 268 GCAGGAGATACAGACCATCAAGAGCAGTACTATCGGGGGCCCGAGGGGATATTTT 327  
  
QY 302 GGTCTATGACATTAGCAGCGAGCGCTCTTACCAGCATCATGAAGTGGGTCACTGACGT 361  
DB 328 GGTCTATGACATTAGCAGCGAGCGCTCTTACCAGCATCATGAAGTGGGTCACTGACGT 387  
  
QY 362 GGATGATACGCACACAGAGCGTCCAGAGATCCTTATTGGGAATAAGGCTGATGAGGA 421  
DB 388 GGATGATACGCACACAGAGCGTCCAGAGATCCTTATTGGGAATAAGGCTGATGAGGA 447  
  
QY 422 GCAGAAACGGCAGGTGGGAGAGAGCAGGAGCAGCAGCTGCCGAGGAGTATGCGATGGA 481  
DB 448 GCAGAAACGGCAGGTGGGAGAGAGCAGGAGCAGCAGCTGCCGAGGAGTATGCGATGGA 507  
  
QY 482 CTTCTATGAACAGTGCCTCCACCAACCTCAACATTAAGAGTCATTCACGCGCTCTGA 540  
DB 508 CTTCTATGAACAGTGCCTCCACCAACCTCAACATTAAGAGTCATTCACGCGCTNTGA 566

RESULT 8  
US-09-817-198A-31  
; Sequence 31, Application US/09817198A  
; Patent No. US20020146758A1  
; GENERAL INFORMATION:  
; APPLICANT: YE, Jane et al.  
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001188  
; CURRENT APPLICATION NUMBER: US/09/817,198A

; CURRENT FILING DATE: 2001-03-27  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 31  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; US-09-817-198A-31

Query Match 15.9%; Score 516.6; DB 10; Length 601;  
Best Local Similarity 99.8%; Pred. No. 1.2e-99;  
Matches 516; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
  
QY 2707 GGCAGTGGCTCCAATCTGTGGACCAGTATTTCCAGCTTTCCCTGAAGATCAGCGAGGTGC 2766  
DB 1 GGCAGTGGCTCCAATCTGTGGACCAGTATTTCCAGCTTTCCCTGAAGATCAGCGAGGTGC 60  
  
QY 2767 CATTCAATTGCTTTCTCTCTAGCCCTCAGGAAAGAGACTATATTTCTACTGTACC 2826  
DB 61 CATTCAATTGCTTTCTCTCTAGCCCTCAGGAAAGAGACTATATTTCTACTGTACC 120  
  
QY 2827 CTAGGGGTTCTGGAAGGAAACATGGAATCAGGATCTATAGACTGATAGGCCCTATCC 2886  
DB 121 CTAGGGGTTCTGGAAGGAAACATGGAATCAGGATCTATAGACTGATAGGCCCTATCC 180  
  
QY 2887 ACAAGGGCCATGACTTGGGAAAGGTATGGGAGCAGAAAGGAATTTGGGATTTTAGGGTGC 2946  
DB 181 ACAAGGGCCATGACTTGGGAAAGGTATGGGAGCAGAAAGGAATTTGGGATTTTAGGGTGC 240  
  
QY 2947 AGCTACGCTCACCCCTAAACTTTTGGTGGCCCTGGGCGCATGTCTTGAGGCCAGACTGTTAA 3006  
DB 241 AGCTACGCTCACCCCTAAACTTTTGGTGGCCCTGGGCGCATGTCTTGAGGCCAGACTGTTAA 300  
  
QY 3007 GCAGGCTCTGCTGGCCCTGTTTACTCGTCACCACTCTGCACCTGCTGTCTTGAGACTCCA 3066  
DB 301 SCAGGCTCTGCTGGCCCTGTTTACTCGTCACCACTCTGCACCTCTGTCTTGAGACTCCA 360  
  
QY 3067 TCCAGCCCCAGGACGCGCACCTGCTCTGAGCCCTCCACTATCTCCCTGTCGAGCGGTGAAC 3126  
DB 361 TCCAGCCCCAGGACGCGCACCTGCTCTGAGCCCTCCACTATCTCCCTGTCGAGCGGTGAAC 420  
  
QY 3127 TTCGTGACTGTGTCTCGGTFCCATATATGAATTTGTGAGCAGGGTTTCATCTATTTTAAAC 3186  
DB 421 TTCGTGACTGTGTCTCGGTFCCATATATGAATTTGTGAGCAGGGTTTCATCTATTTTAAAC 480  
  
QY 3187 ACAGATGTTTACAAAATAAGATTATTTCAAACCAACC 3223  
DB 481 ACAGATGTTTACAAAATAAGATTATTTCAAACCAACC 517

RESULT 9  
US-09-920-300A-303  
; Sequence 303, Application US/09920300A  
; Patent No. US20020136728A1  
; GENERAL INFORMATION:  
; APPLICANT: King, Gordon E.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Secrist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.547  
; CURRENT APPLICATION NUMBER: US/09/920,300A  
; CURRENT FILING DATE: 2001-07-31  
; NUMBER OF SEQ ID NOS: 1789  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 303  
; LENGTH: 481  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 417, 461

OTHER INFORMATION: n = A,T,C or G  
US-09-920-300A-303

Query Match 14.7%; Score 477.4; DB 10; Length 481;  
Best Local Similarity 99.4%; Pred. No. 2e-91;  
Matches 478; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Db 1 GTTGCTTCCTTGAAGATGGGACTCCTTGGGTATCAAGACCTATGCCACATCACACTGGGG 60

QY 2642 CTAGGGAAGTAGTGATGCCAGCCCTCAAGTCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 2701
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Db 61 CTAGGGAAGTAGTGATGCCAGCCCTCAAGTCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 120

QY 2702 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCCTGAAGATCAGGCAG 2761
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Db 121 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCCTGAAGATCAGGCAG 180

QY 2762 GTGCGCATTCATTGTCTTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 2821
|||||
Db 181 GTGCGCATTCATTGTCTTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 240

QY 2822 GTACCCCTAGGGTTCGGAAGGAAACATGGAATCAGGATCTATAGACTGATAGGCC 2881
|||||
Db 241 GTACCCCTAGGGTTCGGAAGGAAACATGGAATCAGGATCTATAGACTGATAGGCC 300

QY 2882 TATCCACAAGGCCATGACTGGGAAAGGTATGGGAGCAGAGAGAAATTTGGATTTAG 2941
|||||
Db 301 TATCCACAAGGCCATGACTGGGAAAGGTATGGGAGCAGAGAGAAATTTGGATTTAG 360

QY 2942 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGTCTTGAGGCCAGACT 3001
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Db 361 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGTCTTGAGGCCANACT 420

QY 3002 GTTAAGCAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTGAGA 3061
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Db 421 GTTAACCAAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTGAGA 480

QY 3062 C 3062
Db 481 C 481
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RESULT 10  
US-10-033-528-303  
; Sequence 303, Application US/10033528  
; Patent No. US20020131971A1  
; GENERAL INFORMATION:  
; APPLICANT: King, Gordon E.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Secretist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.547C1  
; CURRENT APPLICATION NUMBER: US/10/033,528  
; CURRENT FILING DATE: 2001-12-26  
; NUMBER OF SEQ ID NOS: 1896  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 303  
; LENGTH: 481  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 417, 461  
; OTHER INFORMATION: n = A,T,C or G  
US-10-033-528-303

Query Match 14.7%; Score 477.4; DB 12; Length 481;  
Best Local Similarity 99.4%; Pred. No. 2e-91;  
Matches 478; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Db 1 GTTGCTTCCTTGAAGATGGGACTCCTTGGGTATCAAGACCTATGCCACATCACACTGGGG 60

QY 2642 CTAGGGAAGTAGTGATGCCAGCCCTCAAGTCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 2701
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Db 61 CTAGGGAAGTAGTGATGCCAGCCCTCAAGTCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 120

QY 2702 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCCTGAAGATCAGGCAG 2761
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Db 121 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCCTGAAGATCAGGCAG 180

QY 2762 GTGCGCATTCATTGTCTTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 2821
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Db 181 GTGCGCATTCATTGTCTTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 240

QY 2822 GTACCCCTAGGGTTCGGAAGGAAACATGGAATCAGGATCTATAGACTGATAGGCC 2881
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Db 241 GTACCCCTAGGGTTCGGAAGGAAACATGGAATCAGGATCTATAGACTGATAGGCC 300

QY 2882 TATCCACAAGGCCATGACTGGGAAAGGTATGGGAGCAGAGAGAAATTTGGATTTAG 2941
|||||
Db 301 TATCCACAAGGCCATGACTGGGAAAGGTATGGGAGCAGAGAGAAATTTGGATTTAG 360

QY 2942 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGTCTTGAGGCCAGACT 3001
|||||
Db 361 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGTCTTGAGGCCANACT 420

QY 3002 GTTAAGCAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTGAGA 3061
|||||
Db 421 GTTAACCAAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTGAGA 480

QY 3062 C 3062
Db 481 C 481
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RESULT 11  
US-09-964-824A-26/c  
; Sequence 26, Application US/09964824A  
; Patent No. US20020102531A1  
; GENERAL INFORMATION:  
; APPLICANT: Horrigan, Stephen  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Sign  
; TITLE OF INVENTION: Sets  
; FILE REFERENCE: 689290-73  
; CURRENT APPLICATION NUMBER: US/09/964,824A  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US/60/236,033  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,032  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,028  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 383  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 26  
; LENGTH: 463  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-964-824A-26

Query Match 13.5%; Score 438.8; DB 10; Length 463;  
Best Local Similarity 99.3%; Pred. No. 2.5e-83;  
Matches 451; Conservative 0; Mismatches 2; Indels 1; Gaps 1;  
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Db 453 CCCCTCAGGAAAGAGGACTATATTTGTACTGTACCTAGGGTTCCTGGAAGGAAAC 394  
QY 2850 ATGGAATCAGGATCTATAGACTGATAGCCCTATCCACAAAGGCCCATGACTGGGAAAG 2909  
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Db 333 GTATGGGAGCAGAGGAATTCGGATTTTAGGGTGCAG-TAGCCTCACCTTAACCTTT 275
QY 2970 GGTGGCTGGGCATGCTCTTAGGCCCAGACTGTTAAGCAGGCTCTGCTGGCCTGTTTAC 3029
Db 274 GGTGGCTGGGTATGCTCTTAGGCCCCAGACTGTTAAGCAGGTTCTGCTGGCCTGTTTAC 215
QY 3030 TCCTCACCACCTCTGCACCTGCTCTTGTAGACTTCCATCCAGCCCGCAGGACCCACCTG 3089
Db 214 TCGTCACCACCTCTGCACCTGCTCTTGTAGACTTCCATCCAGCCCGCAGGACCCACCTG 155
QY 3090 CTCTGAGCCTCCACATATCTCCCTGTGCACGGGTGAACCTTCTGCTACTGTCTCGGGTCC 3149
Db 154 CTCTGAGCCTCCACATATCTCCCTGTGCACGGGTGAACCTTCTGCTACTGTCTCGGGTCC 95
QY 3150 ATATATGAATGTGAGCAGGGTTCATCTATTTAAACACAGATGTTTACAAAATAAGAT 3209
Db 94 ATATATGAATGTGAGCAGGGTTCATCTATTTAAACACAGATGTTTACAAAATAAGAT 35
QY 3210 TATTTCAACCCACCAAAAAAATAAAAAA 3243
Db 34 TATTTCAACCCACCAAAAAAATAAAAAA 1

RESULT 12
US-10-046-935-1930
; Sequence 1930, Application US/10046935
; Patent No. US20020156011A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aljun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121-527C1
; CURRENT APPLICATION NUMBER: US/10/046,935
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1930
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-046-935-1930

Query Match 9.4%; Score 306.8; DB 9; Length 310;
Best Local Similarity 99.4%; Pred. No. 1.2e-55;
Matches 308; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2824 ACCCTAGGGTCTTGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCCCTA 2883
Db 1 ACCCTAGGGTCTTGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCCCTA 60
QY 2884 TCCACAGGGCCCATGACTGGGAAAGGTATGGGAGCAGAGGAGAAATTTGGATTTTAGGG 2943
Db 61 TCCACAGGGCCCATGACTGGGAAAGGTATGGGAGCAGAGGAGAAATTTGGATTTTAGGG 120
QY 2944 TGCAGCTACGCTCACCTTAACCTTTTGGTGGCTTGGGCAATGCTTTCAGGCCCAGACTGT 3003
Db 121 TGCAGCTACGCTCACCTTAACCTTTTGGTGGCTTGGGCAATGCTTTCAGGCCCAGACTGT 180
QY 3004 TAAGCAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 3063
Db 181 TAACCAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 240
QY 3064 CCATCCAGCCCCAGGACGCCACCTGCTCTGAGCCTCCCACTATCTCCCTGTGACGGGTG 3123
Db 241 CCATCCAGCCCCAGGACGCCACCTGCTCTGAGCCTCCCACTATCTCCCTGTGACGGGTG 300

QY 3124 AACTTCGTGT 3133
Db 301 AACTTCGTGT 310

RESULT 14
US-09-794-257-9
; Sequence 9, Application US/09794257
; Patent No. US2002009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 624
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QY 3124 AACTTCGTGT 3133
Db 301 AACTTCGTGT 310

RESULT 13
US-09-878-178-1930
; Sequence 1930, Application US/09878178
; Patent No. US20020177552A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121-527
; CURRENT APPLICATION NUMBER: US/09/878,178
; CURRENT FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 2237
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1930
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-878-178-1930

Query Match 9.4%; Score 306.8; DB 9; Length 310;
Best Local Similarity 99.4%; Pred. No. 1.2e-55;
Matches 308; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2824 ACCCTAGGGTCTTGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCCCTA 2883
Db 1 ACCCTAGGGTCTTGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCCCTA 60
QY 2884 TCCACAGGGCCCATGACTGGGAAAGGTATGGGAGCAGAGGAGAAATTTGGATTTTAGGG 2943
Db 61 TCCACAGGGCCCATGACTGGGAAAGGTATGGGAGCAGAGGAGAAATTTGGATTTTAGGG 120
QY 2944 TGCAGCTACGCTCACCTTAACCTTTTGGTGGCTTGGGCAATGCTTTCAGGCCCAGACTGT 3003
Db 121 TGCAGCTACGCTCACCTTAACCTTTTGGTGGCTTGGGCAATGCTTTCAGGCCCAGACTGT 180
QY 3004 TAAGCAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 3063
Db 181 TAACCAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 240
QY 3064 CCATCCAGCCCCAGGACGCCACCTGCTCTGAGCCTCCCACTATCTCCCTGTGACGGGTG 3123
Db 241 CCATCCAGCCCCAGGACGCCACCTGCTCTGAGCCTCCCACTATCTCCCTGTGACGGGTG 300

QY 3124 AACTTCGTGT 3133
Db 301 AACTTCGTGT 310

RESULT 14
US-09-794-257-9
; Sequence 9, Application US/09794257
; Patent No. US2002009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 624
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OM protein - protein search, using sw model

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Title: US-09-817-198a-2

Perfect score: 1105

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Minimum DB seq length: 0

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Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	545	49.3	207	2	US-08-824-873-4
2	545	49.3	207	3	US-09-198-184-4
3	527.5	47.7	205	2	US-08-531-525-25
4	527.5	47.7	205	2	US-08-718-270A-25
5	518.5	46.9	198	2	US-08-531-525-51
6	518.5	46.9	198	2	US-08-718-270A-51
7	503.5	45.6	207	2	US-08-531-525-35
8	503.5	45.6	207	2	US-08-718-270A-35
9	494.5	44.8	215	2	US-08-531-525-10
10	494.5	44.8	215	2	US-08-718-270A-10
11	488.5	44.2	194	2	US-08-531-525-34
12	488.5	44.2	194	2	US-08-718-270A-34
13	478.5	43.3	201	2	US-08-916-901-3
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15	469	42.4	201	2	US-08-916-901-8
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18	463	41.9	202	2	US-08-718-270A-14
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21	452.5	41.0	190	3	US-08-824-873-3
22	452.5	41.0	190	3	US-09-198-184-3
23	443	40.1	218	2	US-08-531-525-19
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25	416	37.6	191	4	US-09-075-454-3
26	412.5	37.3	212	4	US-09-399-913-67
27	409.5	37.1	190	2	US-08-824-873-1

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Sequence 18, Appl  
Sequence 52, Appl  
Sequence 52, Appl  
Sequence 8, Appl  
Sequence 16, Appl  
Sequence 16, Appl  
Sequence 3, Appl  
Sequence 17, Appl  
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Sequence 15, Appl  
Sequence 15, Appl  
Sequence 11, Appl  
Sequence 11, Appl  
Sequence 26, Appl  
Sequence 26, Appl

ALIGNMENTS

RESULT 1  
US-08-824-873-4  
; Sequence 4, Application US/08824873  
; Patent No. 5843717  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; TITLE OF INVENTION: NOVEL RAB PROTEIN  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/824,873  
; FILING DATE: Filed Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0240 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 207 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 234746  
US-08-824-873-4

Query Match 49.3%; Score 545; DB 2; Length 207;  
Best Local Similarity 52.9%; Pred. No. 2.2e-52;  
Matches 99; Conservative 45; Mismatches 43; Indels 0; Gaps 0;

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Db 1 MAKTYDYLFKLLIGDSGVGKTCVLFRESEDAFNSTFSTIGIDFKRTIELDGKRIKLQ 60  
QY 61 IWDTAGQERYOTITKQYRRAGGIFLVYDIDISSERSYQHIMKWSVDVDEYAPGEGVOKILIG 120  
Db 61 IWDTAGQERFRTITAYYRGAMGIMLVYDITNEKSFDMIRNWRNIEEHASADVEKMILG 120  
QY 121 NKADBEQKRVGREGOQOLAKYGMDFYETSACTNMLNKESFTRTLTVELVLOAHRKELEGL 180  
Db 121 NKCDVNDKRVSKERGEKALDYGKFMETSAKANINVENAFFTLARDIKAKMDKKLEGN 180  
QY 181 RMRASNE 187  
Db 181 SPOGSNQ 187  
RESULT 2  
US-09-198-184-4  
; Sequence 4, Application US/09198184  
; Patent No. 6010859  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Guegler, Karl  
; TITLE OF INVENTION: NOVEL RAB PROTEIN  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/198,184  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/824,873  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0240 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 207 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 234746  
US-09-198-184-4  
Query Match 49.3%; Score 545; DB 3; Length 207;  
Best Local Similarity 52.9%; Pred. No. 2.2e-52;  
Matches 99; Conservative 45; Mismatches 43; Indels 0; Gaps 0;  
QY 1 MAKQYDVLFRLLIGDSGVGKTCVLFRESEDAFNSTFSTIGIDFKRTIELDGKRIKLQ 60  
Db 1 MAKTYDYLFKLLIGDSGVGKTCVLFRESEDAFNSTFSTIGIDFKRTIELDGKRIKLQ 60  
QY 61 IWDTAGQERYOTITKQYRRAGGIFLVYDIDISSERSYQHIMKWSVDVDEYAPGEGVOKILIG 120

Db 61 IWDTAGQERFRTITAYYRGAMGIMLVYDITNEKSFDMIRNWRNIEEHASADVEKMILG 120  
QY 121 NKADBEQKRVGREGOQOLAKYGMDFYETSACTNMLNKESFTRTLTVELVLOAHRKELEGL 180  
Db 121 NKCDVNDKRVSKERGEKALDYGKFMETSAKANINVENAFFTLARDIKAKMDKKLEGN 180  
QY 181 RMRASNE 187  
Db 181 SPOGSNQ 187  
RESULT 3  
US-08-531-525-25  
; Sequence 25, Application US/08531525  
; Patent No. 5840683  
; GENERAL INFORMATION:  
; APPLICANT: Hlavka, Joseph J.  
; APPLICANT: Pincus, Matthew R.  
; APPLICANT: No. 5840683le, John F.  
; APPLICANT: Abajian, Henry B.  
; APPLICANT: Kende, Andrew S.  
; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action  
; TITLE OF INVENTION: of P21 Ras  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Greenlee and Winner, P.C.  
; STREET: 5370 Manhattan Circle, Suite 201  
; CITY: Boulder  
; STATE: Colorado  
; COUNTRY: US  
; ZIP: 80303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/531,525  
; FILING DATE: 21-SEP-1995  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferber, Donna M.  
; REGISTRATION NUMBER: 33,878  
; REFERENCE/DOCKET NUMBER: 37-94  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (303) 499-8080  
; TELEFAX: (303) 499-8089  
; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 205 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Canis familiaris  
US-08-531-525-25  
Query Match 47.7%; Score 527.5; DB 2; Length 205;  
Best Local Similarity 52.4%; Pred. No. 1.9e-50;  
Matches 97; Conservative 45; Mismatches 42; Indels 1; Gaps 1;  
QY 3 KQYDVLFRLLIGDSGVGKTCVLFRESEDAFNSTFSTIGIDFKRTIELDGKRIKLQ 62  
Db 2 KTYDYLFKLLIGDSGVGKTCVLFRESEDAFNSTFSTIGIDFKRTIELDGKRIKLQ 61  
QY 63 DTAGQERYOTITKQYRRAGGIFLVYDIDISSERSYQHIMKWSVDVDEYAPGEGVOKILGNK 122  
Db 62 DTAGQERFRTITAYYRGAMGIMLVYDITNEKSFDMIRNWRNIEEHASADVEKMILGNK 120  
QY 123 ADEQKRVGREGOQOLAKYGMDFYETSACTNMLNKESFTRTLTVELVLOAHRKELEGL 182









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; APPLICANT: No. 59104781e, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptidomimetics Inhibiting
; TITLE OF INVENTION: the Oncogenic Action of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/718,270A
; FILING DATE: 20-SEP-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/531,525
; FILING DATE: 21-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,091
; FILING DATE: 21-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 78-95
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 215 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Arabidopsis thaliana
;
US-08-718-270A-10

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Query Match 44.8%; Score 494.5; DB 2; Length 215;
Best Local Similarity 46.9%; Pred. No. 9.2e-47;
Matches 100; Conservative 40; Mismatches 54; Indels 19; Gaps 4;

Qy 5 YDVLFRLLIGDSGVGKTCLLCRFTDNEFHSSHTIGVDFKMKTIQVGIKRIQIWDI 64
Db 12 YDYLKLLIGDSGVGSKLLRSDSFTTITIGIDFKITIEDGKRKILQIWDI 71

Qy 65 AGQERYQTITKYRRAQGIPLVYDISSERSYQHIMKWSVDVYAPGQVQKILGNKAD 124
Db 72 AGQER-RTITATYRGAAGILLVYDVTDSSFNIRNIRNIEQHSDNVNKLIVGNKAD 130

Qy 125 -EEOKRVGREGQOLAKGYMDYFETSACTNLIKESFTRLTSLVLAQHRKELEGLMR 183
Db 131 MDESKRAVPTAKGQALADYGIKEFETSACTNLNVEEVSIG-----RDIQR 179

Qy 184 ASNELALAE-----LBEKEGKPEGPANSSKTC 210
Db 180 LSDTDSRAEPATIKISQTDQAAGAGATQKSAC 212

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RESULT 11
US-08-531-525-34
; Sequence 34, Application US/08531525
; Patent No. 5840683
; GENERAL INFORMATION:

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; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: NO. 58406831e, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
; TITLE OF INVENTION: of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/531,525
; FILING DATE: 21-SEP-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 37-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 194 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Discopyge Ommata
;
US-08-531-525-34

Query Match 44.2%; Score 488.5; DB 2; Length 194;
Best Local Similarity 55.8%; Pred. No. 3.6e-46;
Matches 96; Conservative 41; Mismatches 30; Indels 5; Gaps 4;

Qy 1 MAKO-YDVLFRLLIGDSGVGKTCLLCRFTDNEFHSSHTIGVDFKMKTIQVGIKRI 59
Db 1 MAKTYDVLFRLLIGDSGVGKTCVLFRRSDAFNTFTSTIGIDFKITVELHGKKIKL 60

Qy 60 QIWDTAGQERYQTITKYRRAQGIPLVYDISSERSYQHIMKWSVDVYAPGQVQKILI 119
Db 61 QIWDTAGQERFHTT-SYRGAAGIMLVYDITNAKSPENISKWLNRNIDEHANEDVERMLL 119

Qy 120 GNADEQKQVREGQOLAKGYMDYFETSACTNLIKESFTRLTSLVLAQ 171
Db 120 GNK-DMEDKRVLLKSGQ--IAEHAIRFFETSAKANINIEKAFLLAEDILQ 168

RESULT 12
US-08-718-270A-34
; Sequence 34, Application US/08718270A
; Patent No. 5910478
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: NO. 59104781e, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptidomimetics Inhibiting
; TITLE OF INVENTION: the Oncogenic Action of P21 Ras
; NUMBER OF SEQUENCES: 52

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CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder
STATE: Colorado
COUNTRY: US
ZIP: 80303

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/718,270A
FILING DATE: 20-SEP-1996
CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/531,525
FILING DATE: 21-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,091
FILING DATE: 21-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 78-95
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 194 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Discopyge onmata
US-08-718-270A-34

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Query Match	44.2%	Score 488.5;	DB 2;	Length 194;
Best Local Similarity	55.8%;	Pred. No. 3.6e-46;		
Matches	96; Conservative 41;	Mismatches 30;	Indels 5;	Gaps 4;

  

Qy	1	MAKQ-YDVLRLLLIGDSGVGKTCLLCRFDTNEHFSSHSITIGYDFPKMKTTEVDGIKVRI	59
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	:	:	:
Db	1	MAKTYDLLFKLLIGDSGVGKTCVLFPSDDAENFTTIFDIGIDFKIKTVELHGKKIKL	60
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Qy	60	QIWDTAQGRYTITTKVYYRAAQGFILFVLDISSRSQHIMKWSDVDYAPEGVOKILI	119
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	:	:	:
Db	61	QIWDTAQGRFHTIT-SYRGAMGIMLVYDITNAKSRENISKWLRNIDEHANEDVERMLL	119
	:	:	:
Qy	120	GNADESQKRVQREQQOJLAKEYGMDFYETSACTNNLNIKESFFTRLFLVELVQ	171
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	:	:	:
Db	120	GNK--DMEDKRVLVLSKGQ--IAEHAIRFFETFSAKANINIEKAFTUAEADIQ	168
	:	:	:

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RESULT 13
US-08-916-901-3
; Sequence 3, Application US/08916901
; Patent No. 5892012
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
;

```

STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/916,901  
FILING DATE: Filed Herewith  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0367 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0535  
TELEFAX: 415-845-4166  
APPLICATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 201 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: LIVRUT04  
CLONE: 2514506  
US-08-916-901-3

Query Match	43.3%	Score	478.5	DB 2;	Length	201;	
Best Local Similarity	45.0%	Pred. No.	4.9e-45;				
Matches	91; Conservative	42; Mismatches	64;	Indels	5;	Gaps	1;
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Qy	61	IWDTAGQERYOTITKYRRAGGLFVLVDIISERSYQHIMKWSDVDYAPEGVKOKILIG	120				
Dd	61	IWDTAGQERFRTITSYYRGAGHIIVVDVTDQESYANVKOWLQIDRYASENVNKKLVG	120				
Qy	121	NKADEEQRQVRGGQOOLAKKEYGMDFYETTSACTNLNTIKESFTRTLTLVLVAHRKELEGL	180				
Dd	121	NKSULTTKKVYNDNTAKCFADSLGIPIFFLETSAKNATNVEQAF-----MTMAAEIKRMGP	175				
Qy	181	RMRASNELALALEEEEEKPPEG	202				
Dd	176	GAAGGERPNLKDSTPVKPAG	197				

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RESULT 14
US-09-154-602-3
Sequence 3, Application US/09154602
Patent No. 6300472
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Lal, Preeti
APPLICANT: Corley, Neil C.
APPLICANT: Shah, Purvi
TITLE OF INVENTION: RAB PROTEINS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 16, 2003, 04:18:15 ; Search time 77 seconds  
(without alignments)  
54.730 Million cell updates/sec

Title: US-09-817-198A-2  
Perfect score: 1105  
Sequence: 1 MAKQYDVLFRLLIGDVG.....LEEEGKPEGPANSSKTCWC 212

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 120991 seqs, 19878514 residues  
Total number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_AA.\*  
1: /cgn2\_6/ptodata/2/pubpaa/us08\_NEW\_PUB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/us06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/us06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/us07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
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10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1105	100.0	212	US-09-817-198A-2	Sequence 2, Appli
2	1105	100.0	401	US-09-764-868-701	Sequence 701, App
3	1092	98.8	218	US-09-817-198A-5	Sequence 5, Appli
4	1077	97.5	212	US-09-817-198A-4	Sequence 4, Appli
5	832	75.3	188	US-09-764-868-1120	Sequence 1120, Ap
6	532	48.1	246	US-09-925-302-534	Sequence 534, App
7	530.5	48.0	218	US-09-925-300-1571	Sequence 1571, Ap
8	528.5	47.8	207	US-09-794-257-8	Sequence 8, Appli
9	512	46.3	190	US-09-822-860-5	Sequence 5, Appli
10	497	45.0	162	US-09-834-765-766	Sequence 766, App
11	478.5	43.3	201	US-09-967-736-3	Sequence 3, Appli
12	469	42.4	201	US-09-967-736-8	Sequence 8, Appli
13	467	42.3	222	US-09-820-003A-4	Sequence 4, Appli
14	434.5	39.3	198	US-09-794-257-16	Sequence 16, Appli
15	434.5	39.3	198	US-09-945-173-5	Sequence 5, Appli
16	434.5	39.3	198	US-09-972-529-4	Sequence 4, Appli
17	430	38.9	223	US-09-817-199A-4	Sequence 4, Appli
18	429	38.8	223	US-09-817-199A-2	Sequence 2, Appli
19	427	38.6	226	US-09-764-868-684	Sequence 684, App

20	426	38.6	222	9	US-09-764-868-1106	Sequence 1106, Ap
21	416	37.6	191	10	US-09-794-257-14	Sequence 14, Appli
22	416	37.6	191	12	US-10-051-986-3	Sequence 3, Appli
23	412.5	37.3	212	10	US-09-350-874-67	Sequence 67, Appli
24	399	36.1	307	9	US-09-764-868-1100	Sequence 1100, Ap
25	399	36.1	312	10	US-09-925-302-783	Sequence 783, App
26	376	34.0	213	10	US-09-794-257-5	Sequence 5, Appli
27	374.5	33.9	222	9	US-09-764-868-1112	Sequence 1112, Ap
28	374.5	33.9	225	9	US-09-764-868-692	Sequence 692, App
29	373	33.8	213	10	US-09-988-974-8	Sequence 8, Appli
30	373	33.8	217	10	US-09-988-974-3	Sequence 3, Appli
31	373	33.8	239	10	US-09-925-301-1077	Sequence 1077, Ap
32	370	33.5	201	10	US-09-822-860-2	Sequence 2, Appli
33	353.5	32.0	624	10	US-09-834-765-5	Sequence 5, Appli
34	353.5	32.0	625	10	US-09-834-765-762	Sequence 762, App
35	353.5	32.0	832	10	US-09-834-765-2	Sequence 2, Appli
36	351	31.8	168	10	US-09-834-765-765	Sequence 765, App
37	343	31.0	161	10	US-09-834-765-763	Sequence 763, App
38	339	30.7	208	9	US-10-108-605-45	Sequence 45, Appli
39	338.5	30.6	216	10	US-09-945-173-10	Sequence 10, Appli
40	338.5	30.6	217	10	US-09-925-300-1364	Sequence 1364, Ap
41	323.5	29.3	211	12	US-10-051-986-6	Sequence 6, Appli
42	321	29.0	173	10	US-09-820-003A-2	Sequence 2, Appli
43	320	29.0	259	12	US-10-051-986-1	Sequence 1, Appli
44	320	29.0	260	12	US-10-051-986-4	Sequence 4, Appli
45	320	29.0	287	9	US-09-764-868-700	Sequence 700, App

ALIGNMENTS

RESULT 1

US-09-817-198A-2  
; Sequence 2, Application US/09817198A  
; Patent No. US20020146758A1  
; GENERAL INFORMATION:  
; APPLICANT: YE, Jane et al.  
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,  
; NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001188  
; CURRENT APPLICATION NUMBER: US/09/817,198A  
; CURRENT FILING DATE: 2001-03-27  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 212  
; TYPE: PRT  
; ORGANISM: Human  
US-09-817-198A-2

Query Match	100.0%	Score 1105;	DB 10;	Length 212;
Best Local Similarity	100.0%;	Pred. No. 1e-97;		
Matches 212;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MAKOYDVLFRLLIGSGVGKTCLLCRFTDNEFHSSHSITIGVDFKMKTTIEVDGKVRQ	60	
Db	1	MAKOYDVLFRLLIGSGVGKTCLLCRFTDNEFHSSHSITIGVDFKMKTTIEVDGKVRQ	60	
QY	61	IWDTAQERYQTITKQYRRAAGIFLVYDISSERSYQHIMKWYSDVDEYAPEGVQKILIG	120	
Db	61	IWDTAQERYQTITKQYRRAAGIFLVYDISSERSYQHIMKWYSDVDEYAPEGVQKILIG	120	
QY	121	NKADEQKROVGREGQQQLAKKEYGMDFYETSACTNLNLIKESFTRLTFLVLAQHRKELEGL	180	
Db	121	NKADEQKROVGREGQQQLAKKEYGMDFYETSACTNLNLIKESFTRLTFLVLAQHRKELEGL	180	
QY	181	RMRASNELALAELEEEGKPEGPANSSKTCWC	212	
Db	181	RMRASNELALAELEEEGKPEGPANSSKTCWC	212	
RESULT 2				





RESULT 9
 US-09-822-860-5
 ; Sequence 5, Application US/09822860
 ; Patent No. US20020146795A1
 ; GENERAL INFORMATION:
 ; APPLICANT: ZHU, Shiaoqing et al.
 ; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS;
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
 ; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
 ; FILE REFERENCE: CL001214
 ; CURRENT APPLICATION NUMBER: US/09/822,860
 ; CURRENT FILING DATE: 2001-04-02
 ; NUMBER OF SEQ ID NOS: 5
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 190
 ; TYPE: PRT
 ; ORGANISM: Discopyge ommata
 US-09-822-860-5

 Query Match 46.3%; Score 512; DB 10; Length 190;
 Best Local Similarity 47.7%; Pred. No. 1.6e-41;
 Matches 93; Conservative 52; Mismatches 42; Indels 8; Gaps 1;

 QY 6 DVLFRLLIGDSGVGKTCCLCRFTDNEFHSSHISTIGVDFKMTIEVDGKIVRIQIWDTA 65
 DB 1 DYLKLLIGDSGVGKTCCLCRFTDNEFHSSHISTIGVDFKMTIEVDGKIVRIQIWDTA 60
 QY 66 GQRYQYOTITKQYRRAGQIFLVYDISERSYQHIMKWVSDVDEYAPGEGVQKILGNK 125
 DB 61 GQERFRITAYYRGAMGINKYVDIINERKSFNIRNIEEHASDVVERMILGNKCDM 120
 QY 126 EQKRVQREGQQLAKYEGMDFTYTSACTNLNKEFTRTELVLQAHKKEGLEGRMAS 195
 DB 121 NEKRVQSKERGEKLADYGIKFLKTSKINVEEAFITLARDIMTKLNKM----- 172
 QY 186 NELALAELEEECKP 200
 DB 173 NENSLQEAVDKLKSP 187

 RESULT 10
 US-09-834-765-766
 ; Sequence 766, Application US/09834765
 ; Patent No. US20020055478A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mary Faris
 ; APPLICANT: Pia M. Challita-Eid
 ; APPLICANT: Arthur B. Raitano
 ; APPLICANT: Steve Chappell Mitchell
 ; APPLICANT: Daniel E.H. Afar
 ; APPLICANT: Aya Jakobovits
 ; TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
 ; TITLE OF INVENTION: AND DETECTION OF CANCER
 ; FILE REFERENCE: 129.6USU1
 ; CURRENT APPLICATION NUMBER: US/09/834,765
 ; CURRENT FILING DATE: 2001-09-21
 ; PRIOR APPLICATION NUMBER: 60/197,647
 ; PRIOR FILING DATE: 2000-04-12
 ; NUMBER OF SEQ ID NOS: 770
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 766
 ; LENGTH: 162
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-834-765-766

 Query Match 45.0%; Score 497; DB 10; Length 162;
 Best Local Similarity 55.4%; Pred. No. 3.5e-40;
 Matches 87; Conservative 41; Mismatches 29; Indels 0; Gaps 0;

QY 9 FRLLLIGDSGVGKTCCLCRFTDNEFHSSHISTIGVDFKMTIEVDGKIVRIQIWDTAQOE 68
 DB 1 FKLLLLIGDSGVGKTCVLFRRSEDAENSTFISGIDFKIRTIELDGKRIKLQIWDTAQOE 60
 QY 69 RYQTTTKQYRRAGQIFLVYDISERSYQHIMKWVSDVDEYAPGEGVQKILGNKKADEQK 128
 DB 61 RPTTITAYYRGAMGIMLVYDITNEKSFNIRNIEEHASDVVERMILGNKCDVNDK 120
 QY 129 ROVREOQOOLAKYEGMDFTYTSACTNLNKEFTRTL 165
 DB 121 ROVSKERGEKLADYGIKFMETSAKANINVENAFETL 157
 RESULT 11
 US-09-967-736-3
 ; Sequence 3, Application US/09967736
 ; Patent No. US20020103340A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hillman, Jennifer L.
 ; Lal, Preeti
 ; Corley, Neil C.
 ; Shah, Purvi
 ; TITLE OF INVENTION: RAB PROTEINS
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.
 ; STREET: 3174 Porter Dr.
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94304
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSeq for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/967,736
 ; FILING DATE: 28-Sep-2001
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 09/154,602
 ; FILING DATE: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Billings, Lucy J.
 ; REGISTRATION NUMBER: 36,749
 ; REFERENCE/DOCKET NUMBER: PF-0367 US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 415-855-0555
 ; TELEFAX: 415-845-4166
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 201 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; IMMEDIATE SOURCE:
 ; LIBRARY: LIVRUT04
 ; CLONE: 2514506
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 US-09-967-736-3

 Query Match 43.3%; Score 478.5; DB 10; Length 201;
 Best Local Similarity 45.0%; Pred. No. 2.7e-38;
 Matches 91; Conservative 42; Mismatches 64; Indels 5; Gaps 1;

 QY 1 MAKQYDVLFRLLLLIGDSGVGKTCCLCRFTDNEFHSSHISTIGVDFKMTIEVDGKIVRIQ 60
 DB 1 MNPEYDYLKLLLLIGDSGVGKSCLLRRFADDTYESTIGVDFKIRTIELDGKRIKLQ 60
 QY 61 IWDTAGERYOTITKQYRRAGQIFLVYDISERSYQHIMKWVSDVDEYAPGEGVQKILIG 120
 DB 61 IWDTAGERYOTITKQYRRAGQIFLVYDVTQESYANVKWLQELIDRYASENVNLLVG 120



QY 121 NKADEOKROVREGQOOLAKKEYGMDPYETSACTNLNIKESHSTIGVDKFKMTIEVDGKVRIO 180  
Db 121 NKSDLTTKVYDNTTAKEFADSLGIPLETSAKNATNVEQAF-----MTWAAEIKKRMGP 175  
QY 181 RMRASNELALAELEEBEGKPEG 202  
Db 176 GAASGGGERPNLKIDTDPVKPAG 197

RESULT 12

US-09-967-736-8

; Sequence 8, Application US/09967736

; Patent No. US20020103340A1

; GENERAL INFORMATION:

; APPLICANT: Hillman, Jennifer L.

; Lal, Preeti

; Corley, Neil C.

; Shah, Purvi

; TITLE OF INVENTION: RAB PROTEINS

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Dr.

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/967,736

; FILING DATE: 28-Sep-2001

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/154,602

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0367 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-855-0555

; TELEFAX: 415-845-4166

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 201 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: GenBank

; CLONE: 57006

; SEQUENCE DESCRIPTION: SEQ ID NO: 8:

US-09-967-736-8

Query Match 42.4%; Score 469; DB 10; Length 201;

Best Local Similarity 51.2%; Pred. No. 2.1e-37;

Matches 83; Conservative 36; Mismatches 43; Indels 0; Gaps 0;

QY 1 MAKOYDVLFRLLIGDSGVGKTCLLCRFTDNEFHSSHISTIGVDKFKMTIEVDGKVRIO 60

Db 1 MNPEYDYLKLLIGDSGVGKSCLLLRFDADDTYTESYISTIGVDKFKIRTELGGTKIKLQ 60

QY 61 IWDTAGQERYQTITKOYRRAGQIFLYVDISSERSYQHIMKWSDVDEYAPEGVQKILIG 120

Db 61 IWDTAGQERFRTVTSYRGAGHGIIVYDVTQESYANVKQWLQEIYDRIYASENVNKLVLG 120

QY 121 NKADEOKROVREGQOOLAKKEYGMDPYETSACTNLNIKESF 162

Db 121 NKSDLTTKVYDNTTAKEFADSLGVPFLETSAKNATNVEQAF 162

RESULT 13

US-09-820-003A-4

; Sequence 4, Application US/09820003A

; Patent No. US20020142382A1

; GENERAL INFORMATION:

; APPLICANT: MERKULOV, Gennady et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; TITLE OF INVENTION: PROTEINS, AND USES THEREOF

; FILE REFERENCE: CLO01196

; CURRENT APPLICATION NUMBER: US/09/820,003A

; CURRENT FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 39

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 222

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-820-003A-4

Query Match 42.3%; Score 467; DB 10; Length 222;

Best Local Similarity 51.9%; Pred. No. 3.8e-37;

Matches 84; Conservative 34; Mismatches 44; Indels 0; Gaps 0;

QY 1 MAKOYDVLFRLLIGDSGVGKTCLLCRFTDNEFHSSHISTIGVDKFKMTIEVDGKVRIO 60

Db 21 MNPEYDYLKLLIGDSGVGKSCLLLRFDADDTYTESYISTIGVDKFKIRTELGGTKIKLQ 80

QY 61 IWDTAGQERYQTITKOYRRAGQIFLYVDISSERSYQHIMKWSDVDEYAPEGVQKILIG 120

Db 81 IWDTAGQERFRTVTSYRGAGHGIIVYDVTQESYANVKQWLQEIYDRIYASENVNKLVLG 140

QY 121 NKADEOKROVREGQOOLAKKEYGMDPYETSACTNLNIKESF 162

Db 141 NKCDLTTKVYDNTTAKEFADSLGIPLETSAKNATNVEQSF 182

RESULT 14

US-09-794-257-16

; Sequence 16, Application US/09794257

; Patent No. US20020009804A1

; GENERAL INFORMATION:

; APPLICANT: Meyers, Rachel

; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1e1

; FILE REFERENCE: 35800/209285

; CURRENT APPLICATION NUMBER: US/09/794,257

; CURRENT FILING DATE: 2001-02-27

; PRIOR APPLICATION NUMBER: 60/185,606

; PRIOR FILING DATE: 2000-02-29

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 16

; LENGTH: 198

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Pfam accession number PF00071

US-09-794-257-16

Query Match 39.3%; Score 434.5; DB 10; Length 198;

Best Local Similarity 50.9%; Pred. No. 3.9e-34;

Matches 89; Conservative 30; Mismatches 43; Indels 13; Gaps 3;

QY 10 RLLIGDSGVGKTCLLCRFTDNEFHSSHISTIGVDKFKMTIEVDGKVRIOIWDTAGQER 69

Db 1 KLVIGDSGVGKSCLLLRFTDNKFFVEEYIPTIGVDFTKTVKQIWDTAGQER 60

QY 70 YQITKOYRRAGQIFLYVDISSERSYQHIMKWSDVDEYA--PEGVQKILIGNKAD--- 124

Db 61 FRALRPAYRGAGQFLIVDITSDSPENVKVWLEELRLHADKDNPNVILVGNKCQLED 120



GenCore version 5.1.3  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: January 16, 2003, 04:19:45 ; Search time 47 seconds

(without alignments)  
1383.308 Million cell updates/sec

Title: US-09-817-198A-2

Perfect score: 1105

Sequence: 1 MAKQYDVLFRLLIGDSGVG.....LEEEGKPEGPANSSKTCWC 212

Scoring table:

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Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-O=/cgn2\_1/USPTO.spool/US09817198/runat\_13012003\_120050\_22010/app\_query.fasta\_1.391  
-DB-Issued\_Patents\_NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS-human40.cdi  
-LIST=45 -DOCALIGN=200 -THR\_SCORE=pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09817198.CGN\_1.1.17 -runat\_13012003\_120050\_22010 -NCPU=6 -ICPU=3  
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-WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7  
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

- 1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*
- 2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/PCUTUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	478.5	43.3	925	2	US-08-916-901-4
2	478.5	43.3	925	4	US-09-154-602-4
3	437.5	39.6	1340	2	US-08-824-873-2
4	437.5	39.6	1340	3	US-09-198-184-2
5	429	38.8	875	4	US-09-075-454-10
6	429	38.8	2612	4	US-09-484-970B-142
7	419	37.9	639	4	US-09-399-913-66
8	411.5	37.2	970	3	US-08-888-077A-28
9	373	33.8	847	2	US-08-773-423-4
10	343	31.0	890	3	US-08-741-411-4
11	340.5	30.8	803	4	US-09-075-454-13
12	321.5	29.1	1407	4	US-09-493-914-1

13	320	29.0	1172	4	US-09-075-454-8	Sequence 8, Appli
14	320	29.0	1533	4	US-09-075-454-11	Sequence 11, Appl
15	313	28.3	1255	2	US-08-766-551-6	Sequence 6, Appli
16	297	26.9	1175	2	US-08-773-423-6	Sequence 6, Appli
17	282	25.5	848	3	US-08-741-411-2	Sequence 2, Appli
18	274.5	24.8	1749	4	US-09-149-476-54	Sequence 54, Appl
19	271.5	24.6	820	3	US-08-741-411-6	Sequence 6, Appli
20	262	23.7	615	1	PCT-US95-06420-5	Sequence 5, Appli
21	262	23.7	615	5	US-08-842-306B-1	Sequence 1, Appli
22	260	23.5	985	4	US-08-838-973B-1	Sequence 1, Appli
23	260	23.5	985	4	US-08-838-973B-1	Sequence 1, Appli
24	259.5	23.5	3198	4	US-08-771-212A-1	Sequence 1, Appli
25	259.5	23.5	3198	4	US-08-842-306B-48	Sequence 48, Appl
26	259.5	23.5	3198	4	US-08-838-973B-48	Sequence 48, Appl
27	255	23.1	600	3	US-09-078-317-1	Sequence 1, Appli
28	255	23.1	600	4	US-09-454-818-1	Sequence 1, Appli
29	255	23.1	2309	3	US-09-078-317-3	Sequence 3, Appli
30	255	23.1	2309	4	US-09-454-818-3	Sequence 3, Appli
31	249.5	22.6	624	4	US-09-415-522-1	Sequence 1, Appli
32	249.5	22.6	5197	4	US-09-293-170-6	Sequence 6, Appli
33	246	22.3	1074	2	US-09-156-424-1	Sequence 1, Appli
34	246	22.3	1074	4	US-09-387-341-1	Sequence 1, Appli
35	245.5	22.2	603	4	US-09-325-332A-29	Sequence 29, Appl
36	245.5	22.2	932	4	US-09-325-332A-28	Sequence 28, Appl
37	245.5	22.2	2436	1	US-08-306-691B-16	Sequence 16, Appl
38	244.5	22.1	574	2	US-08-429-964-83	Sequence 83, Appl
39	239	21.6	607	2	US-08-429-964-85	Sequence 85, Appl
40	236	21.4	1058	3	US-09-156-807-1	Sequence 1, Appli
41	236	21.4	5775	1	US-08-306-691B-15	Sequence 15, Appl
42	236	21.4	5775	5	PCT-US93-06251-29	Sequence 29, Appl
43	232	21.0	1284	2	US-09-161-015-1	Sequence 1, Appli
44	232	21.0	1284	4	US-09-387-341-150	Sequence 150, App
45	230.5	20.9	1166	5	PCT-US96-12129B-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-08-916-901-4  
; Sequence 4, Application US/08916901  
; Patent No. 5892012  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: RAB PROTEINS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/916,901  
; FILING DATE: Filed Herewith  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0367 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166



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Qy 121 AsnLysAlaAspGluGlnLysArgGlnValGlyArgGluGlnGlnLysLeuAla 140
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Db 426 AACAAAGAGCGACCTCACCAACCAAGAGTGTGGACAAACACCAAGAGTTTGCA 485
Qy 141 LysGluTyrGlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIleGlyGlu 160
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Db 486 GACTCTCTGGGCATCCCTCTTCTGGAGACGAGCGCCCAAGATGCCACCAATGTGAGCAG 545
Qy 161 SerPheThrArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluLeuGluGlyLeu 180
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Db 546 GCGTTC-----ATGACCATGGCTGCTGTAATCAAAAAGCGGATGGCGCT 590
Qy 181 ArgMetArgAlaSerAsnGluLeuAlaGluLeuGluGluGluGlyLysPro 200
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Db 591 GGACGAGCCTCTGGGGCGAGCGGCCCAATCTCAAGATCGACACGACCCCTGTAAAGCCG 650
Qy 201 GluGly 202
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Db 651 GCTGGC 656

RESULT 3
US-08-824-873-2
; Sequence 2, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; APPLICATION DATA:
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PANCNOT04
; CLONE: 738957
US-08-824-873-2

Alignment Scores:
Pred. No.: 6.5e-46
Score: 437.50
Percent Similarity: 67.84%
Best Local Similarity: 45.23%
Query Match: 39.59%
DB: 13
Caps: 3
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Db 22 TACGACCTGCCCTTCAAGGTCTATCTGTTGGGGGACTCGGTGTGGGAAGACCTGTCTG 81
Qy 25 Leu-CysArgPheThrAspAsnGluPhe---HisSerSerHisIleSerThrIleGlyVa 43
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Db 82 CTGGGTGGGATTCAAGGATGGTCTTCCCTGGCGGGGACCTTCATCTCCACCGTAGC-AT 140
Qy 43 lAspPheLysMetLysThrIleGluValAspGlyIleLysValArgIleGlnIleTpsAs 63
|||||:|||||
Db 141 TGACTTCGGGAACAATCTCTGGACGTGGATGGTGTGAAGGTGAAGCTGCAGATGTGGGA 200
Qy 63 pThrAlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArgArgAlaGlnI 83
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Db 201 CACAGCTGGTCAGGAGGGTTCCGAGTGTACCCATGCCCTACTACCGGGATGCTCATGC 260
Qy 83 yIlePheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMetLysTtpVa 103
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Db 261 TCTGCTGCTCTACGATGTACCAACAAAGGCTCTCTTGCACACATCCAGGCTGTGCT 320
Qy 103 lSerAspValAspGluTyrAlaProGluGlyValGlnLysIleLeuIleGlyAsnLysAl 123
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Db 321 GACCGAGATCCACGAGTACGCCACGACGAGTGGCGCTCATGCTGTGGGGAACAAGGT 380
Qy 123 aAspGluGlnLysArgGlnValGlyArgGluGlnGlnGlnGlnLysGluTyr 143
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Db 381 GGACTCTGCCCATGAGCGTGTGTGAAGAGGGAGGAGGAGGAGGAGGAGGAGGAGTA 440
Qy 143 rGlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIleLysGluSerPheTh 163
|||||:|||||
Db 441 TGGACTGCCCTTCATGGAGACCGCCGACAGCGGCTCAACGTGGACTTGGCTTCCAC 500
Qy 163 rArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluLeuGluGluGluGlyLys 183
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Db 501 AGCCATAGCA-----AAGGAGTTGAAGCAGCGCTCCATGAA 536
Qy 183 gAlaSerAsnGlu-----LeuAlaLeuAlaGluLeuGluGluGluGluGlyLys 199
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Db 537 GGCTCCAGCGAGCGCGCTTCCGCTGCATGATTACGTTAAGAGGGAGGAGGAGTCA 591

RESULT 4
US-09-198-184-2
; Sequence 2, Application US/09198184
; Patent No. 6010859
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; APPLICATION DATA:
; FILING DATE:
; CURRENT APPLICATION NUMBER: US/09/198,184
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/824,873
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
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QY 124 AspGluGluGlnLysArgGlnValGlyArgGluGlnGlnGlnLysGluTyr 143
Db 432 GATATGAGCAGCAGCAAGAGTATCGTTCGGAAGACGAGAGACCTTGGCCAGGAGTAC 491
QY 144 GlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnLysGluSerPheThr 163
Db 492 GGTGTTCCCTTCTCGGAGACGAGCGCAAGACTGGCATGAATGTG----- 536
QY 164 ArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluLeuGluGlyLeuArgMetArg 183
Db 537 -----GAGTTAGCCTTCTGGCCATGCCAAGGAA-----CTGAATACCGG 578
QY 184 AlaSerAsnGlu 187
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Db 579 GCCGGGCATCAG 590

RESULT 6
US-09-484-970B-142
; Sequence 142, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Voikmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 142
; LENGTH: 2612
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1
US-09-484-970B-142

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Pred. No.: 2,08e-44 Length: 2612
Score: 429.00 Matches: 82
Percent Similarity: 68.48% Conservative: 44
Best Local Similarity: 44.57% Mismatches: 46
Query Match: 38.82% Indels: 12
DB: 4 Gaps: 3

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Db 151 CTGATCAATTCAAAGACGGGGCTTCTGTCCGGAACCTTCATAGCCACCGCTGGCATA 210
QY 44 AspPheLysMetLysThrIleGluValAspGlyLysValArgLleGlnIleTrpAsp 63
Db 211 GACTTCAGGAACAAGGTGGTGAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 270
QY 64 ThrAlaGluGlnGluArgTyrGlnThrIleThrLysGlnTyrArgAlaGlnGly 83
Db 271 ACCGCTGGGAGAAAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 330
QY 84 IlePheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMetLysTrpVal 103
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QY 104 SerAspValAspGluTyrAlaProGluGluGlnLysLysLeuLeuGlyAsnLysAla 123
Db 391 ACTGAGATTTCATGATGATGCCAGAGGAGCGTGTGATCATGCTGTAGGCAACAAGCG 450
QY 124 AspGluGluGlnLysArgGlnValGlyArgGluGlnGlnGlnLysGluTyr 143
Db 451 GATATGAGCAGCAGCAAGAGTATCGTTCGGAAGACGAGAGACCTTGGCCAGGAGTAC 510
QY 144 GlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnLysGluSerPheThr 163
Db 511 GGTGTTCCCTTCTCGGAGACGAGCGCAAGACTGGCATGAATGTG----- 555
QY 164 ArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluLeuGluGlyLeuArgMetArg 183
Db 556 -----GAGTTAGCCTTCTGGCCATGCCAAGGAA-----CTGAATACCGG 597
QY 184 AlaSerAsnGlu 187
||| :::::
Db 598 GCCGGGCATCAG 609

RESULT 7
US-09-399-913-66
; Sequence 66, Application US/09399913
; Patent No. 6361971
; GENERAL INFORMATION:
; APPLICANT: Rhodes, Kenneth
; APPLICANT: Betty, Maria
; APPLICANT: Ling, Hui-Ping
; APPLICANT: An, Wenqian
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: MNI-070CP2
; CURRENT APPLICATION NUMBER: US/09/399,913
; CURRENT FILING DATE: 1999-09-21
; EARLIER APPLICATION NUMBER: USN 60/110,277
; EARLIER FILING DATE: 1998-11-30
; EARLIER APPLICATION NUMBER: USN 60/110,033
; EARLIER FILING DATE: 1998-11-25
; EARLIER APPLICATION NUMBER: USN 60/109,333
; EARLIER FILING DATE: 1998-11-20
; EARLIER APPLICATION NUMBER: USN 09/298,731
; EARLIER FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: USN 09/350,614
; EARLIER FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: USN 09/350,874
; EARLIER FILING DATE: 1999-07-09
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
; LENGTH: 639
; TYPE: DNA
; ORGANISM: Rattus sp.
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(636)
US-09-399-913-66

Alignment Scores:
Pred. No.: 4,8e-44 Length: 639
Score: 419.00 Matches: 85
Percent Similarity: 64.59% Conservative: 50
Best Local Similarity: 40.67% Mismatches: 65
Query Match: 37.92% Indels: 9
DB: 4 Gaps: 2

US-09-817-198A-2 (1-212) x US-09-399-913-66 (1-639)
QY 5 TyrAspValLeuPheArgLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 24
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QY 25 LeuCysArgPheThrAspAsnGluPheHisSerHisIleSerThrIleGlyValAsp 44  
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QY 45 PheLysMetLysThrIleGluValAspGlyIleLysValArgIleGlnIleTrpAspThr 64  
Db 127 TTGTGGTCTCGAATGATACCACTTGTATGGAACAGATAAACTCCAGATCTGGGATACA 186  
QY 65 AlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrArgArgAlaGlnGlyIle 84  
Db 187 GCAGGCGAGGAGTCCTTTCGTTTATCACAAGGTTCATATACAGAGTCCAGCGGGGCT 246  
QY 85 PheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMetLysTrpValSer 104  
Db 247 TTACTAGTATGATATATACAGGAGACACAGTTCACCACTTGACACCTGGTTAGAA 306  
QY 105 AspValAspGluTyrAlaProGluGlyValGlnLysIleLeuIleGlyAsnLysAlaAsp 124  
Db 307 GACGCGCGTCAGCATTCCTCAATCCACATGGTTCATCATCTTATTGGAATAAAAGTGAC 366  
QY -125 GluGluGlnLysArgGlnValGlyArgGluGlnGlnGlnLysGluTyrGly 144  
Db 367 TTAAATCTAGGAGAGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 426  
QY 145 MetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIleLysGluSerPheThrArg 164  
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QY 165 LeuThrGluLeuVal-LeuGlnAlaHisArgLysGluLeuGluGlyLeuArgMetArg-- 183  
Db 487 ACAGCAAAAGAAATTTATGAAAAATCCAAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 546  
QY 184 -AlaSerAsnGluLeuAlaGluLeu-----GluGluGlu 196  
Db 547 AACGGCATAAATTTGGCCCTCAGCATGCTGCTACCAATGCATCTCACGAGGACCAACCA 606  
QY 196 uGluGlyProGluGlyProAla 204  
Db 607 GGAGGCGAGCAGGCGAGGCGGAGGCT 631  
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US-08-888-077A-28  
; Sequence 28, Application US/08888077A  
; Patent No. 6020143  
; GENERAL INFORMATION:  
; APPLICANT: ST. GEORGE-HYSLOP, PETER H  
; APPLICANT: ROMMENS, JOHANNA M  
; APPLICANT: FRASER, PAUL E  
; TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED  
; TITLE OF INVENTION: TO ALZHEIMER'S DISEASE AND USES THEREFOR.  
; NUMBER OF SEQUENCES: 41  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK  
; STREET: 600 SOUTH AVENUE WEST  
; CITY: WESTFIELD  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07090-1497  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/888,077A  
; FILING DATE: 03-JUL-1997  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/592,541  
; FILING DATE: 26-JAN-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PALISI, THOMAS M  
; REGISTRATION NUMBER: 36,629

; REFERENCE/DOCKET NUMBER: SCHERING 3.0-017 CIP CIP CIP IV  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (908) 654-5000  
; TELEFAX: (908) 654-7866  
; INFORMATION FOR SEQ ID NO: 28:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 970 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 1..970  
; OTHER INFORMATION: /note= "Y2H9"  
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Pred. No.: 411.50 Matches: 85  
Score: 64.04% Conservative: 45  
Best Local Similarity: 41.87% Mismatches: 68  
Query Match: 37.24% Indels: 5  
DB: Gaps: 3  
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QY 4 GlnTyrAspValLeuPheArgLeuLeuIleGlyAspSerGlyValGlyLysThrCys 23  
Db 72 GAGTACGACTACCTCTTTAAAGTTCTCCTATTGAGATTCTGTGTTGGAAGAGTAAT 131  
QY 24 LeuLeuCysArgPheThrAspAsnGluPheHisSerHisIleSerThrIleGlyVal 43  
Db 132 CTCCTGTCTCGATTACTCGAAATCAGTTTAACTGGAAGCAAGAGCACCATTGGAGTA 191  
QY 44 AspPheLysMetLysThrIleGluValAspGlyIleLysValArgIleGlnIleTrpAsp 63  
Db 192 GAGTTTGCACCAAGAGCATCCAGGTGATGAAAAACAATAAGGCACAGATATGGAC 251  
QY 64 ThrAlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArgArgAlaGlnGly 83  
Db 252 ACAGCAGGCAAGAGCGATATCGAGCTATAACATCAGCATATTATCGTGGAGCTTAGGT 311  
QY 84 IlePheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMetLysTrpVal 103  
Db 312 GCCTTATGTTTATGACATCTGTAACATCTCACATATGAAATGTAGAGCGATGGCTG 371  
QY 104 SerAspValAspGluTyrAlaProGluGlyValGlnLysIleLeuIleGlyAsnLysAla 123  
Db 372 AAAGAACTGAGAGATCATGCTGATAGTAACATTTGTTATCATGCTTTGTGGCAATAAGAGT 431  
QY 124 AspGluGluGlnLysArgGlnValGlyArgGluGlnGlnGlnLysGluTyr 143  
Db 432 GATCTACGTCATCTCAGGCGAGTTCCTCAGATGGAAGCAAGACCTTTTCGCAAGAAAGAT 491  
QY 144 GlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIleLysGluSerPhe--- 162  
Db 492 GGTGTTGTCATTCACTGAACTTCGGCCCTAGACTCTACAAATGTAGAAAGCTGCTTTTCAG 551  
QY 163 ThrArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluLeuGluGlyLeuArg--- 181  
Db 552 ACAATTTTAACAGAGATTTTACCGCATTTGTTCTCAGAAAGCAATATGTCAGACAGCGCAA 611  
QY 182 -----MetArgAlaSerAsnGluLeuAlaLeuAlaGluLeu---GluGluGluGluGly 198  
Db 612 AATGACATGCTCCAGCAACAATGTGGTTCCTATTTCATGTTCCACCAACCCTGAAAC 671  
QY 199 LysProGlu 201  
Db 672 AAGCAAG 680

RESULT 9  
US-08-773-423-4  
; Sequence 4, Application US/08773423







QY 142 uTyrGlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIleLysGluSerPh 162  
 Db 486 GTATGGGCAATTATCTGTGTAACAACAGTGCACAAAGATGGTTCTTAACATAGTGGAGGCTGT 545  
 QY 162 eThrArgLeuThrGluLeuValLeuGlnAlaHisArgLysGlu----- 176  
 Db 546 TCTGCACCTTGTCTGAGAACTGAAAAAGAGAAGTACACAAAGATGACAGCAGATCCATTAC 605  
 QY 177 ----LeuGluGluLeuArgMetArgAlaSerAsnGluLeu 188  
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RESULT 12  
 US-09-493-914-1  
 ; Sequence 1, Application US/09493914  
 ; Patent No. 6448073  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jger, Dick  
 ; APPLICANT: Stockert, Elizabeth  
 ; APPLICANT: Jger, Elke  
 ; APPLICANT: Gure, Ali  
 ; APPLICANT: Scanlan, Matthew J.  
 ; APPLICANT: Knuth, Alexander  
 ; APPLICANT: Old, Lloyd J.  
 ; APPLICANT: Chen, Yao-Tseng  
 ; TITLE OF INVENTION: Cancer Associated Antigen Encoding Nucleic Acid Molecules  
 ; FILE REFERENCE: LUD-5638  
 ; CURRENT APPLICATION NUMBER: US/09/493,914  
 ; CURRENT FILING DATE: 2000-01-28  
 ; NUMBER OF SEQ ID NOS: 5  
 ; SEQ ID NO 1  
 ; LENGTH: 1407  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: Unsure  
 ; LOCATION: 1165 .. 1390  
 US-09-493-914-1

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 Pred. No.: 3,5e-31 Length: 1407  
 Score: 321.50 Matches: 83  
 Percent Similarity: 54.19% Conservative: 40  
 Best Local Similarity: 36.56% Mismatches: 66  
 Query Match: 29.10% Indels: 38  
 DB: 4 Gaps: 10

US-09-817-198A-2 (1-212) x US-09-493-914-1 (1-1407)

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 Db 72 CTGTACAAAGTTGCTGGTGTGGCGACTGGCGTGGGAAGACCATCATCATCAACGCGC 131  
 QY 28 PheThrAspAsnGluPheHisSerSerHisIleSerThrIleGlyValAspPheLysMet 47  
 Db 132 TACGTGCACCAAGACTTCTCTCCACTACCGGCCACATCGCGTGGACTCGCCGCTC 191  
 QY 48 LysThrIleGluValAsp---GlyIleLysValArgIleGlnIleTrpAspThrAlaGly 66  
 Db 192 AAGGTGCTCCACTGGGACCGCGAGACGTGTGTGCGCTCGCAGCTCTGGGATATCGCAGGT 251  
 QY 67 GlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArgArgAlaGlnGlyIlePheLeu 86  
 Db 252 CAAGAAAGATTGGAACATGACAGAGGTCTATTACCAGAAAGCTATGGGTGCATTATT 311  
 QY 87 ValTyrAspIleSerSerGluArgSerTyrGlnHisIleMetLysTrpValSerAspVal 106  
 Db 312 GTCTTCATGTCCAGCCAGCCAGCCACATTTGAACAGTGGCAAGTGGAAAAATGATTG 371  
 QY 107 AspGlu-----TyrAlaProGluGly-----ValGlnLysIleLeuIleGlyAsnLys 122  
 Db 372 GACTCCAAGTAAGTCTCCCTAATGGCAACCGGTTTCAGTGGTGTGTTGTTGGCCAAACAA 431

QY 123 AlaAspGluGluGlnLysArgGlnValGlyArgGluGlnGly-----GlnGluLeu 139  
 Db 432 TGTGAC-----CAGGGGAAGGATGCTCATGAACAATGGCCTCAAGATGGACCATTC 485  
 QY 140 AlaLysGluTyrGly---MetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIle 158  
 Db 486 TGCAAGGAGCAGCGGTTTCGTAGGATGTTTGAACACATCAGCAAGGAAAAATATAACATT 545  
 QY 159 LysGluSerPheThrArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluLeuGlu 178  
 Db 546 GATGAAGCCTCCAGATCGCTGGTGAAACACATCTT----- 581  
 QY 179 GlyLeuArgMetArgAlaSerAsnGluLeuAlaLeuAlaGlu---LeuGluGluGluGlu 197  
 Db 582 -----GCAATGAGTGTGCACCTATGAGTCTATGAGCCGAGGATC 623  
 QY 198 GlyLysPro-----GluGlyProAla-AsnSerSe 207  
 Db 624 GTGAAGCCCATCTCATCAATCAACCAAGTTGCCAGCTGCTGTGCTGTGCCAAATCTCTAG 683  
 QY 207 rLys---ThrCysTrpCys 212  
 Db 684 TAGGCACCTTTGCTGTGT 702

RESULT 13  
 US-09-075-454-8  
 ; Sequence 8, Application US/09075454  
 ; Patent No. 6391580  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hillman, Jennifer L.  
 ; APPLICANT: Tang, Y. Tom  
 ; APPLICANT: Lal, Preeti  
 ; APPLICANT: Guegler, Karl J.  
 ; APPLICANT: Corley, Neil C.  
 ; APPLICANT: Patterson, Chandra  
 ; APPLICANT: Batra, Sajeev  
 ; APPLICANT: Baughn, Mariah R.  
 ; TITLE OF INVENTION: RAS PROTEINS  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
 ; STREET: 3174 Porter Drive  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: US  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/075,454  
 ; FILING DATE: Herewith  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/766,551  
 ; FILING DATE: DECEMBER 12, 1996  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Cerrone, Michael C.  
 ; REGISTRATION NUMBER: 39,132  
 ; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-855-0555  
 ; TELEFAX: 650-845-4166  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 8:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1172 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear





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GenCore version 5.1.3  
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OM protein - nucleic search, using frame\_plus\_p2n model

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Searched: 393868 seqs, 222934149 residues

Total number of hits satisfying chosen parameters: 787736

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database :

Published Applications.NA:\*  
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2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*  
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5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*  
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12: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*  
13: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*  
14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1105	100.0	3257	10	US-09-817-198A-1
3	832	75.3	566	9	US-09-764-868-507
4	534.5	48.4	1274	10	US-09-925-302-91
					Sequence 88, Appli
					Sequence 1, Appli
					Sequence 507, App
					Sequence 91, Appli

## ALIGNMENTS

RESULT 1  
US-09-764-868-88  
; Sequence 88, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT332  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 88  
; LENGTH: 2021  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-88

Alignment Scores:  
Pred. No.: 3.4e-129  
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Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 100.00%  
DB: 9  
Length: 2021  
Matches: 212  
Conservative: 0  
Mismatch: 0  
Indels: 0  
Gaps: 0

US-09-817-198A-2 (1-212) x US-09-764-868-88 (1-2021)

Sequence 631, App  
Sequence 9, Appli  
Sequence 7, Appli  
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Sequence 885, App  
Sequence 894, App  
Sequence 896, App  
Sequence 836, App  
Sequence 4, Appli  
Sequence 529, App  
Sequence 832, App  
Sequence 1461, Ap  
Sequence 10, Appl  
Sequence 13, Appl  
Sequence 1, Appli  
Sequence 71, Appli  
Sequence 493, App  
Sequence 66, Appl  
Sequence 15, Appl  
Sequence 487, App  
Sequence 487, App  
Sequence 794, App  
Sequence 2113, Ap  
Sequence 488, App  
Sequence 478, App  
Sequence 49, Appl  
Sequence 487, App  
Sequence 340, App  
Sequence 646, App  
Sequence 1359, Ap  
Sequence 1, Appli  
Sequence 78, Appl  
Sequence 652, App  
Sequence 563, App  
Sequence 374, App  
Sequence 774, App  
Sequence 469, App  
Sequence 1231, Ap  
Sequence 1426, Ap  
Sequence 6, Appli  
Sequence 4, Appli  
Sequence 79, Appl







us-09-817-198a-2.rnpb

Page 4



us-09-817-198a-2.rnpb

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; CURRENT APPLICATION NUMBER: US/09/834,975
;
; CURRENT FILING DATE: 2001-04-13
;
; PRIOR APPLICATION NUMBER: 60/197,538
;
; PRIOR FILING DATE: 2000-04-14
;
; NUMBER OF SEQ ID NOS: 1046
;
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 894
;
; LENGTH: 2497
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
; FEATURE:
;
; NAME/KEY: misc_feature
;
; LOCATION: (1)..(2497)
;
; OTHER INFORMATION: n = A,T,C or G
;
; US-09-834-975-894

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US-09-834-975-894	
Alignment Scores:	
Pred. No.:	1.26e-56
Score:	528.50
Percent Similarity:	80.68%
Best Local Similarity:	53.98%
Query Match:	47.83%
DR:	10
	Length:
	Matches:
	Conservative:
	Mismatches:
	Indels:
	Gaps:
	2497
	95
	47
	33
	1
	1

DB: 10 Gaps: 10  
US-09-817-198A-2 (1-212) X US-09-834-975-894 (1-2497)

US-09-817-198A-2 (1-212) x US-09-834-975-894 (1-2497)

Qy	1	MetAlaLysGlnTyrAspValLeuPheArgLeuLeuIleGlyAspSerGlyValGly	20
Db	92	ATGCGAAGACGATACCATTCCTTCAAGCTCCTGCTATCGCGACATCGGGGTAGCG	151
Qy	21	LysThrCysLeuLeuCysArgPheThrAspAsnGluPheHisSerSerHisIleSerThr	40
Db	152	AAGACCTGCCTCTGTTCGCTTCTCAGAGGACGCCTTCAACACCACTTCATCTCCACC	211
Qy	41	IleGlyValAspPheLysMetLysThrIleGluValAspGlyIleLysValargIleGln	60
Db	212	ATCGGAATTGATTTTAAATTAGAACCATAGAACTAGATGGAAGAAAATTAAGCTTCAG	271
Qy	61	IleTrpAspThrAlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArgArg	80
Db	272	ATATGGGACACAGCGGTGAGAAAGATTCCGAACAATCAGCACGCTACTACAGAGGA	331
Qy	81	AlaGlnGlyIlePheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMet	100
Db	332	GCCATGGGCATATTATGCTGGTCTATGACATCACAAATGAAAATCCCTTGCACATATAA	391
Qy	101	LysTrpValSerAspValAspGluTyrAlaProGluGlyValGlnLysIleLeuIleGly	120
Db	392	AATGGATCAGAACACATTTGAGACCATGCCTCTTCCGATGTCGAAAGAATGATCCTGGGT	451
Qy	121	AsnLysAlaaspGluGlnLysArgGlnValGlyArgGluGlnGlnGlnLeuLeu	140
Db	452	AACAAATGTGATATGATGACAAAAGACAGTGTCAAAAGAAAGAGGGGAGAGCTAGCA	511
Qy	141	LysGluTyrGlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIleLysGlu	160
Db	512	ATTGACTATGGATTAAATCTTGGAGACAGCCCAAAATCCAGTGCAAATGTAGAGAG	571
Qy	161	Ser---PheThrArgLeuThrGluLeuValLeuGlnAlaHisArgLys	175
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Db      572 GCATTTTTTACACTGTCACGAGATATAA
      RESULT 11
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      ; Sequence 896, Application US/09834975
      ; Patent No. US20020110815A1
      ; GENERAL INFORMATION:
      ; APPLICANT: Lillie, James
      ; APPLICANT: Brown, Jeffrey
      ; APPLICANT: Bolt, Andrew
      ; APPLICANT: Van Hufel, Christophe
      ; TITLE OF INVENTION: NOVEL GENES, COM
      ; TITLE OF INVENTION: FOR THE IDENTIF

```

APPLICANT: Van Huffel, Christophe  
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS  
TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY



US-09-967-736-4  
; Sequence 4, Application US/09967736  
; Patent No. US20020103340A1  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
Lal, Preeti  
Corley, Neil C.  
Shah, Purvi  
TITLE OF INVENTION: RAB PROTEINS  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Dr.  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/967,736  
FILING DATE: 28-Sep-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/154,602  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0367 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
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INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 925 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: LIVRUT04  
CLONE: 2514506  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-967-736-4

Alignment Scores:

Pred. No.:	5,76e-51	Length:	925
Score:	478.50	Matches:	91
Percent Similarity:	65.84%	Conservative:	42
Best Local Similarity:	45.05%	Mismatches:	64
Query Match:	43.30%	Indels:	5
DB:	10	Gaps:	1

US-09-817-198A-2 (1-212) x US-09-967-736-4 (1-925)

Qy	1	MetAlaLysGlnTyrAspValLeuPheArgLeuLeuLeuIleGlyAspSerGlyValGly	20
Db <td>66<td>ATGAACCCGAAATAGACTACTCTGTTCGTTGGATGGCGAACCAATCATCAACTTCAG</td><td>125</td></td>	66 <td>ATGAACCCGAAATAGACTACTCTGTTCGTTGGATGGCGAACCAATCATCAACTTCAG</td> <td>125</td>	ATGAACCCGAAATAGACTACTCTGTTCGTTGGATGGCGAACCAATCATCAACTTCAG	125
Qy <td>21<td>LysThrCysLeuLeuCysArgPheThrAspAsnGluPheHisSerHisIleSerThr</td><th>40</th></td>	21 <td>LysThrCysLeuLeuCysArgPheThrAspAsnGluPheHisSerHisIleSerThr</td> <th>40</th>	LysThrCysLeuLeuCysArgPheThrAspAsnGluPheHisSerHisIleSerThr	40
Db <td>126<td>AAGTCATGCCTCTCTCGGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGACC</td><th>185</th></td>	126 <td>AAGTCATGCCTCTCTCGGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGACC</td> <th>185</th>	AAGTCATGCCTCTCTCGGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGACC	185
Qy <td>41<td>IleGlyValAspPheLysMetLysThrIleGluValAspGlyIleLysValArgIleGln</td><th>60</th></td>	41 <td>IleGlyValAspPheLysMetLysThrIleGluValAspGlyIleLysValArgIleGln</td> <th>60</th>	IleGlyValAspPheLysMetLysThrIleGluValAspGlyIleLysValArgIleGln	60
Db <td>186<td>ATCGGGGTGGACTTCAAGATCCGACCATCGAGCTGGATGGCAAACATCATCAACTTCAG</td><th>245</th></td>	186 <td>ATCGGGGTGGACTTCAAGATCCGACCATCGAGCTGGATGGCAAACATCATCAACTTCAG</td> <th>245</th>	ATCGGGGTGGACTTCAAGATCCGACCATCGAGCTGGATGGCAAACATCATCAACTTCAG	245
Qy <td>61<td>IleTrpAspThrAlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArg</td><th>80</th></td>	61 <td>IleTrpAspThrAlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArg</td> <th>80</th>	IleTrpAspThrAlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArg	80
Db <td>246<td>ATCTGGACACACGGGCCGACGAGGTTCGCGACCATCACATTCAGCTACTACCGGGG</td><th>305</th></td>	246 <td>ATCTGGACACACGGGCCGACGAGGTTCGCGACCATCACATTCAGCTACTACCGGGG</td> <th>305</th>	ATCTGGACACACGGGCCGACGAGGTTCGCGACCATCACATTCAGCTACTACCGGGG	305



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